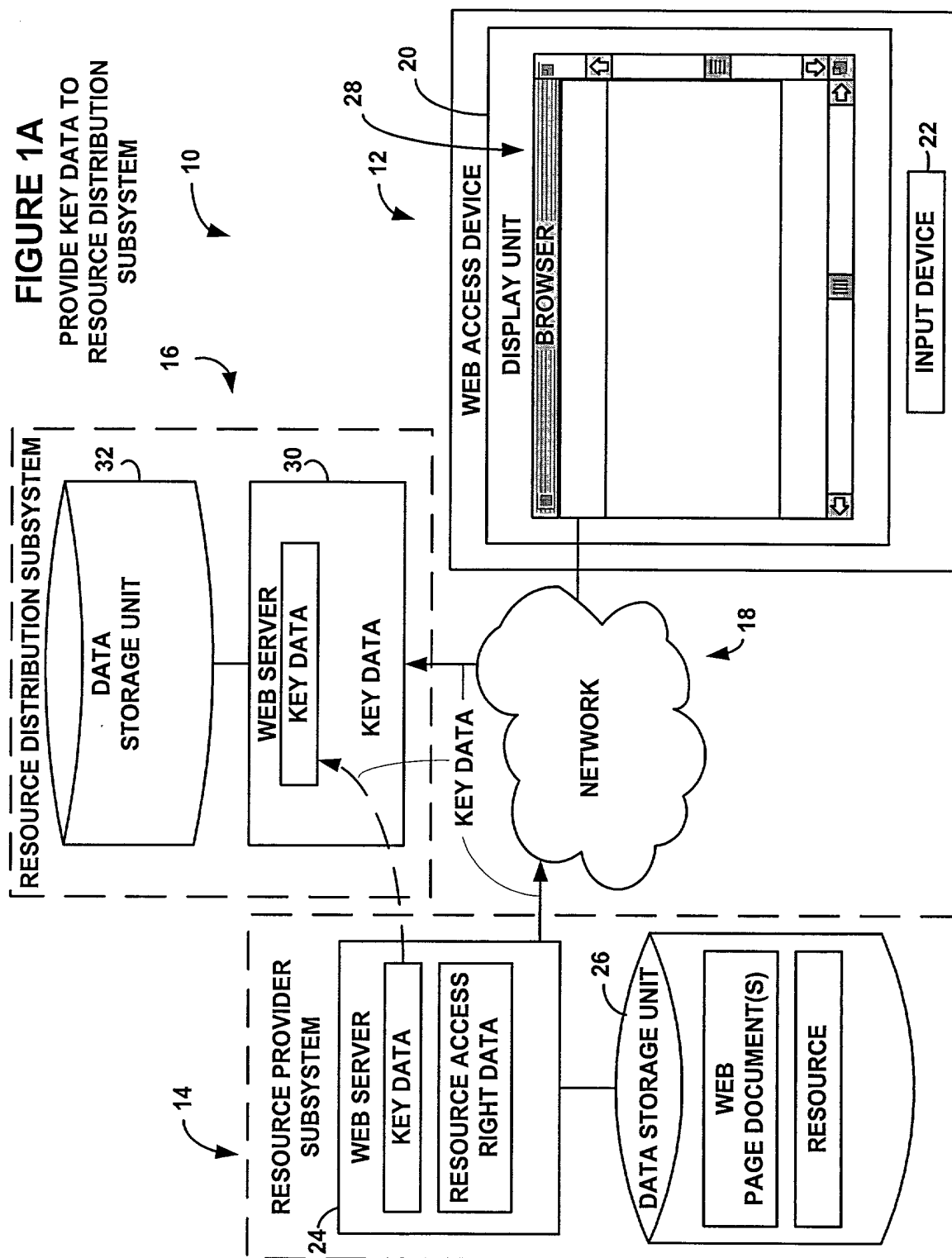
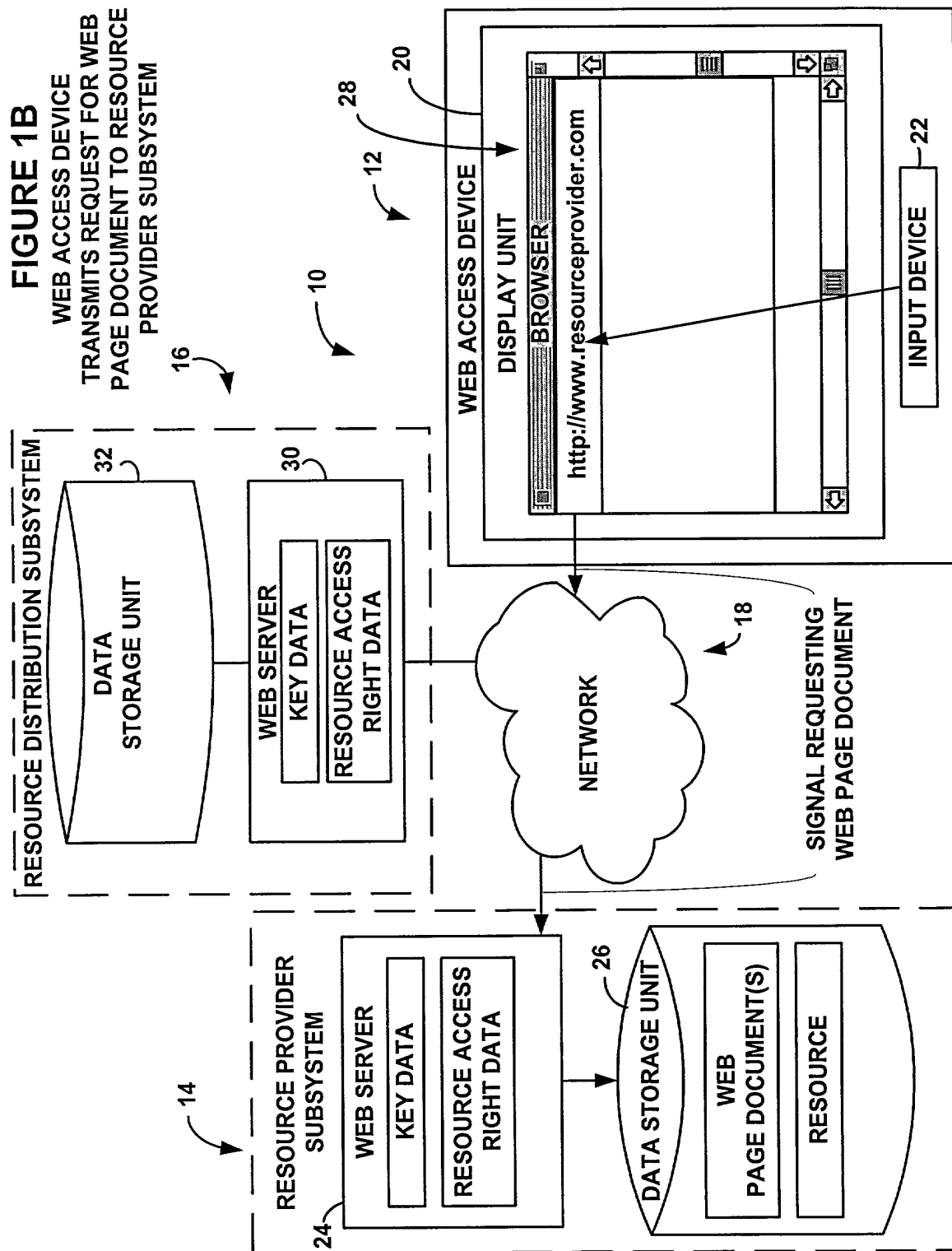
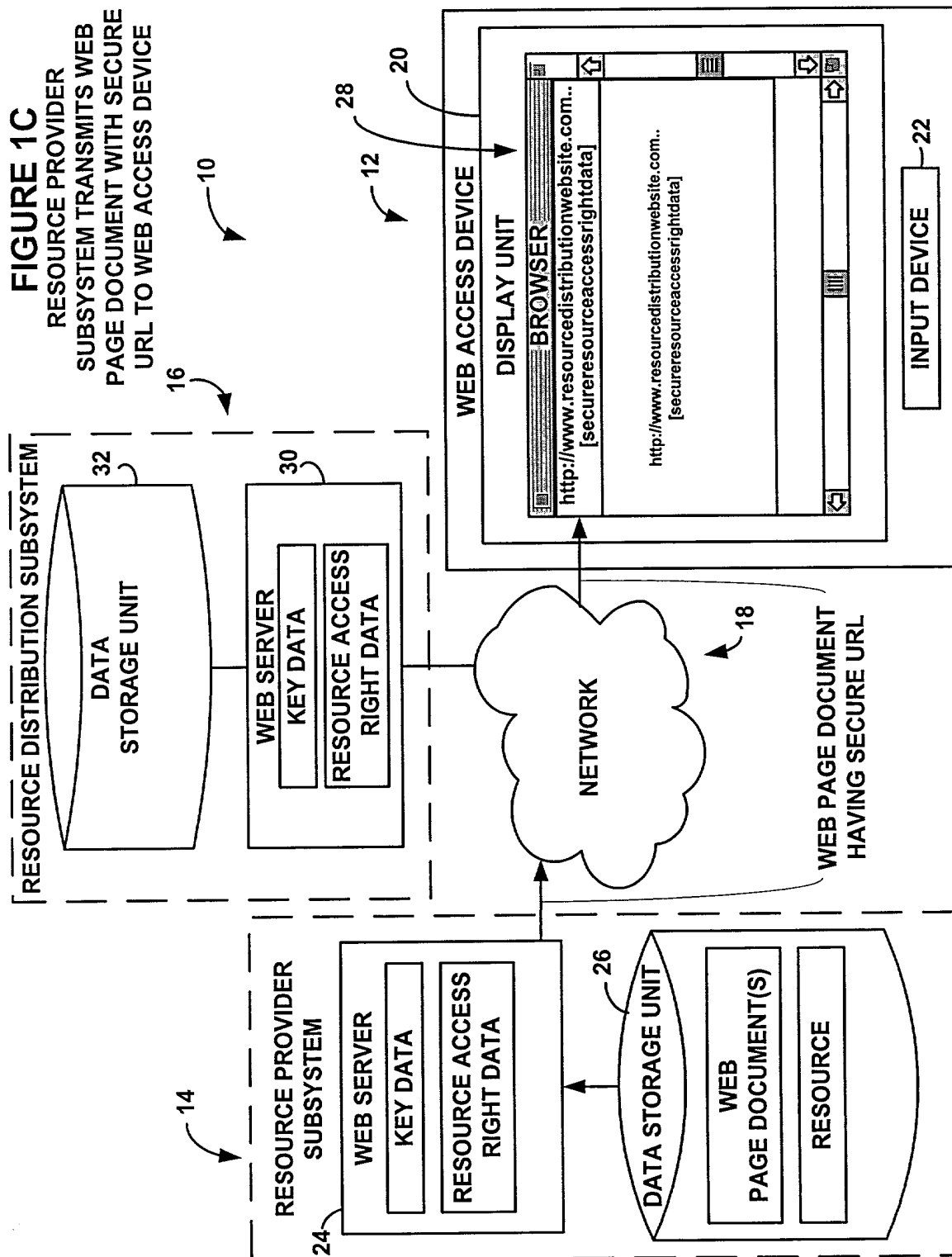
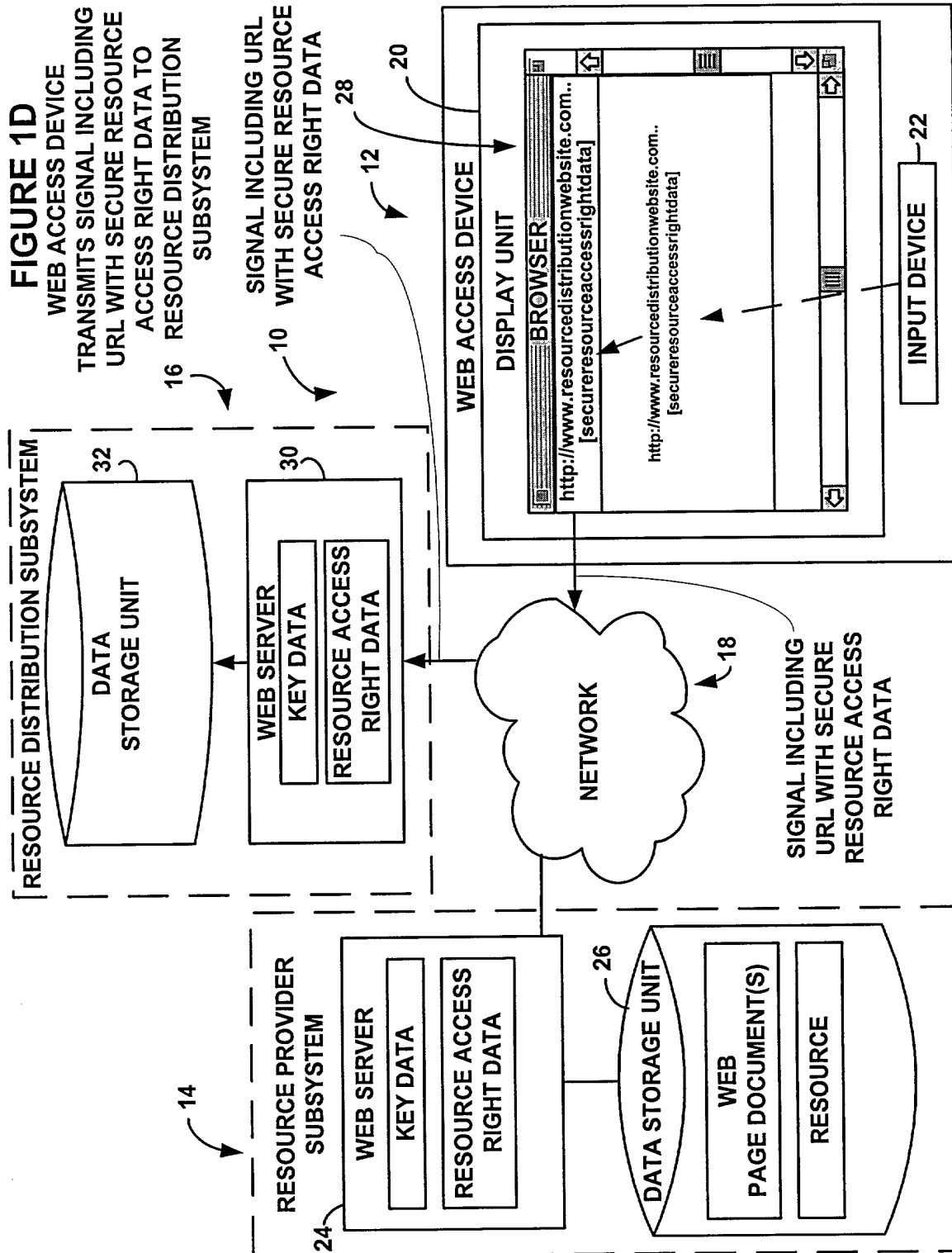


**FIGURE 1A**  
PROVIDE KEY DATA TO  
RESOURCE DISTRIBUTION  
SUBSYSTEM









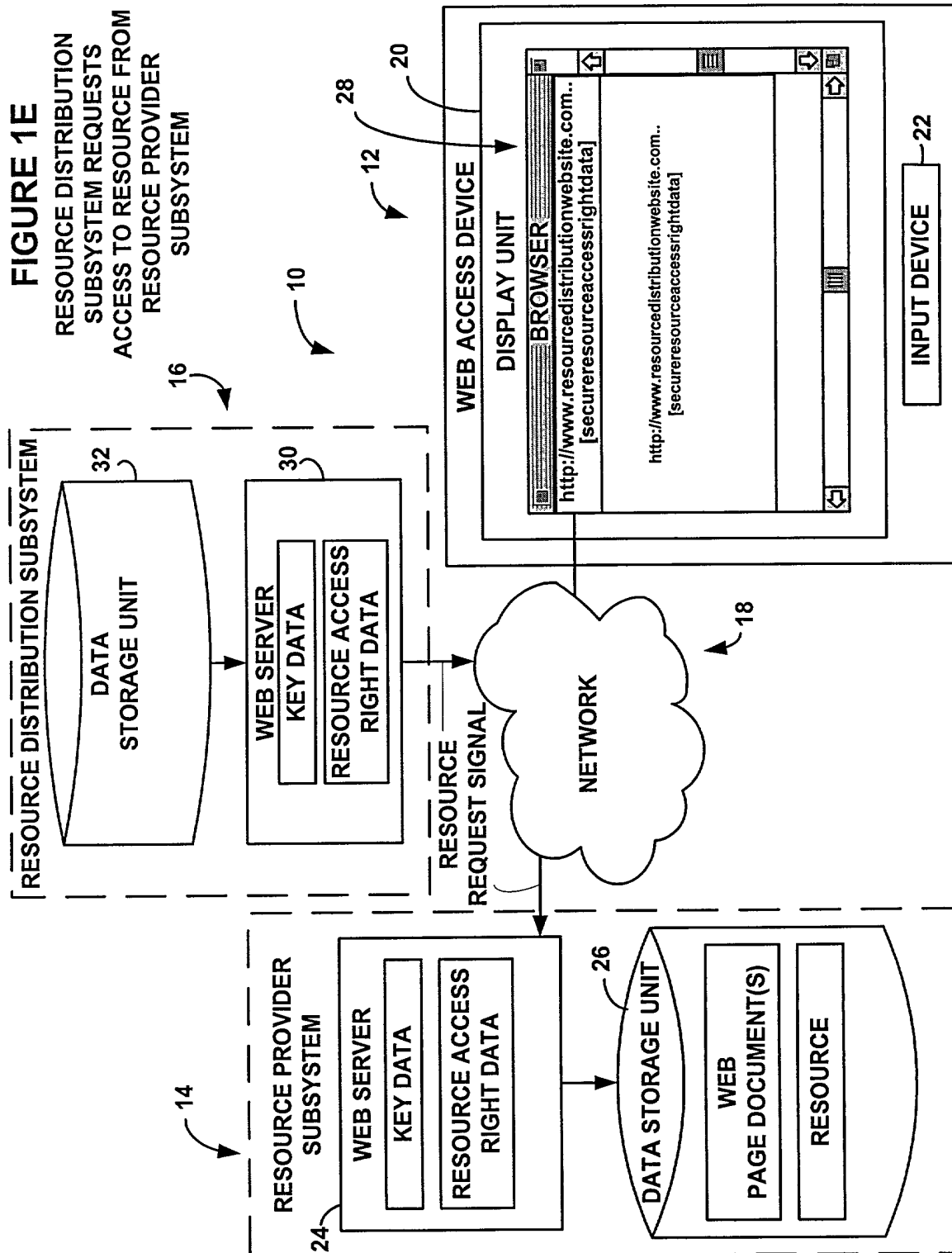
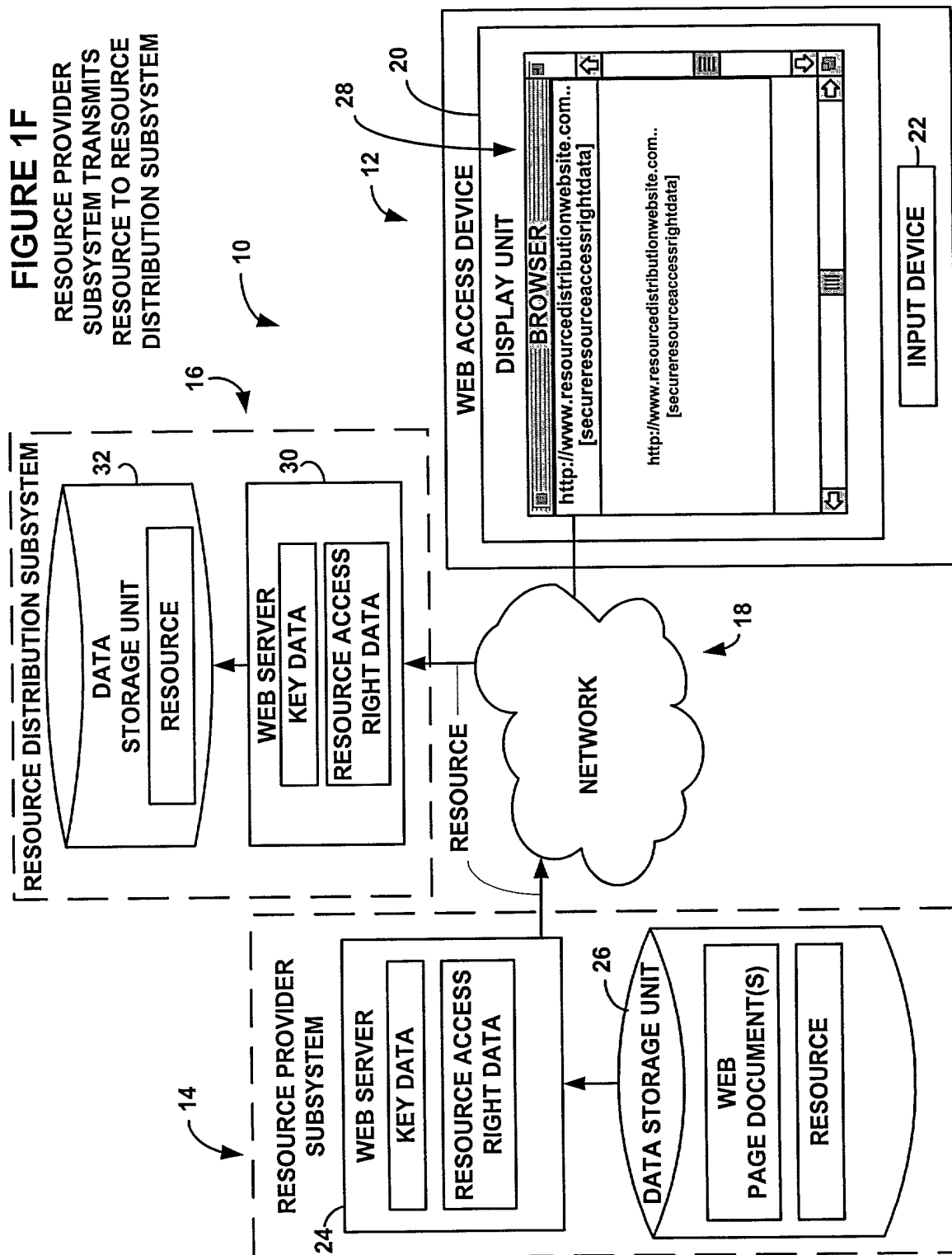
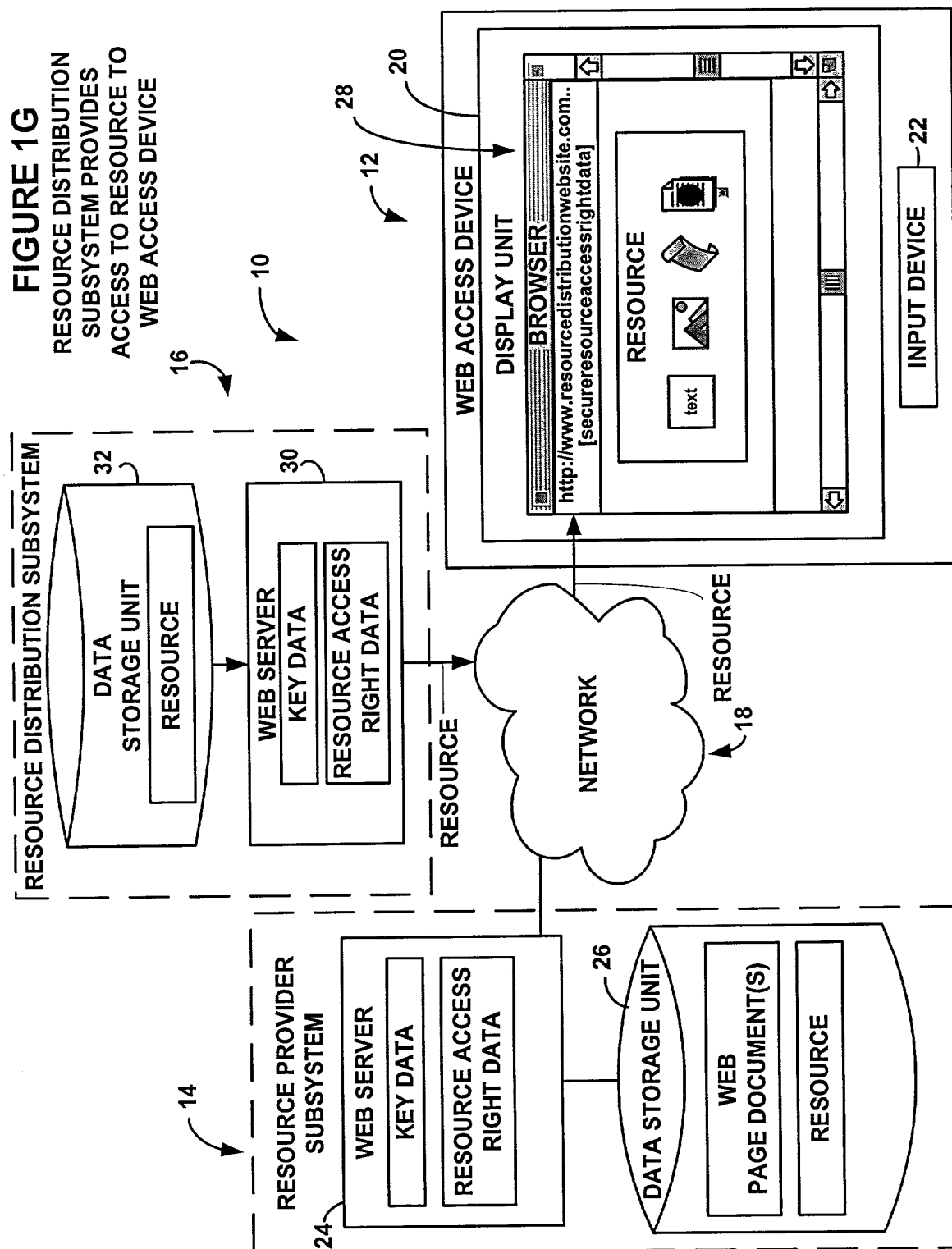
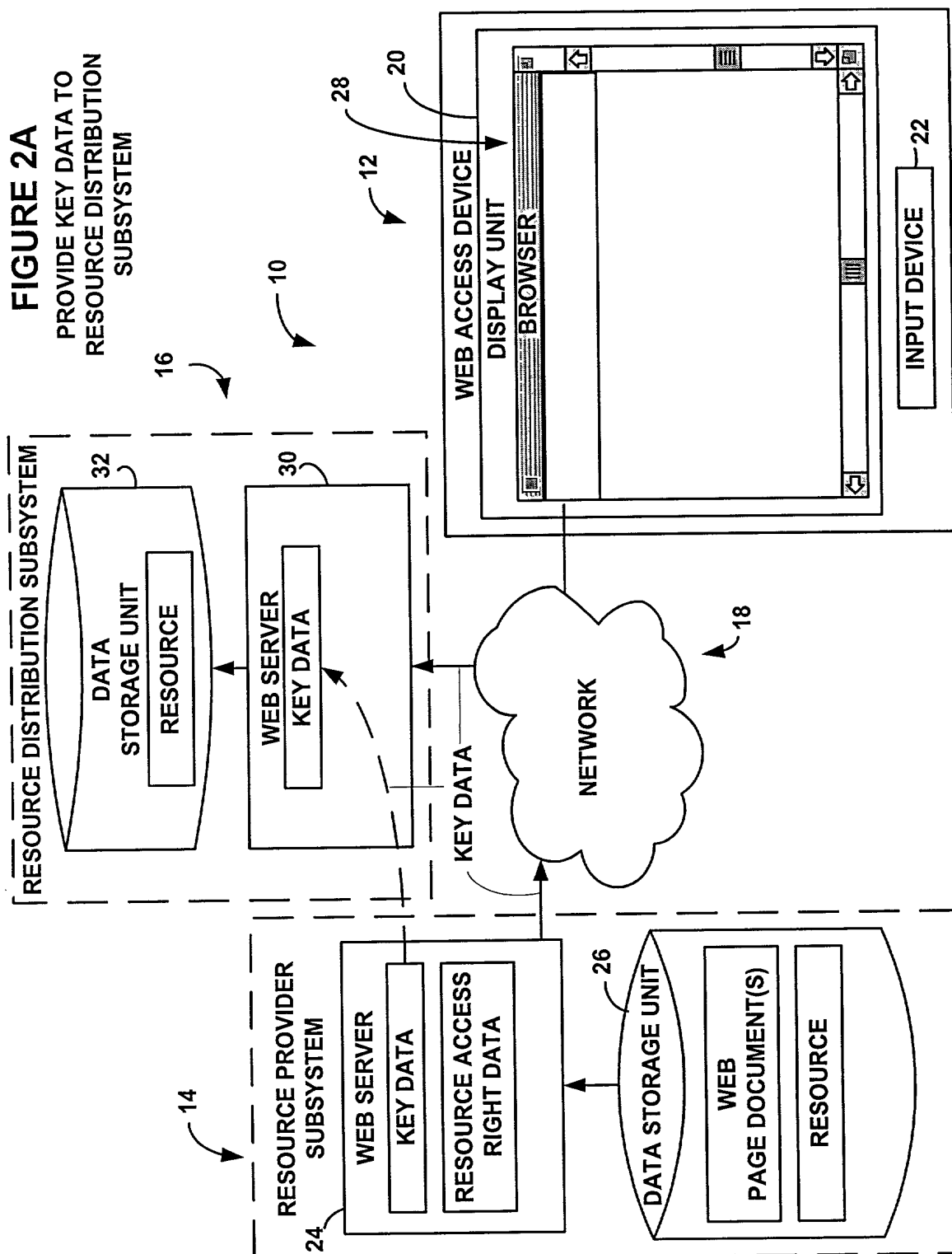


FIGURE 1F  
RESOURCE PROVIDER  
SUBSYSTEM TRANSMITS  
RESOURCE TO RESOURCE  
DISTRIBUTION SUBSYSTEM

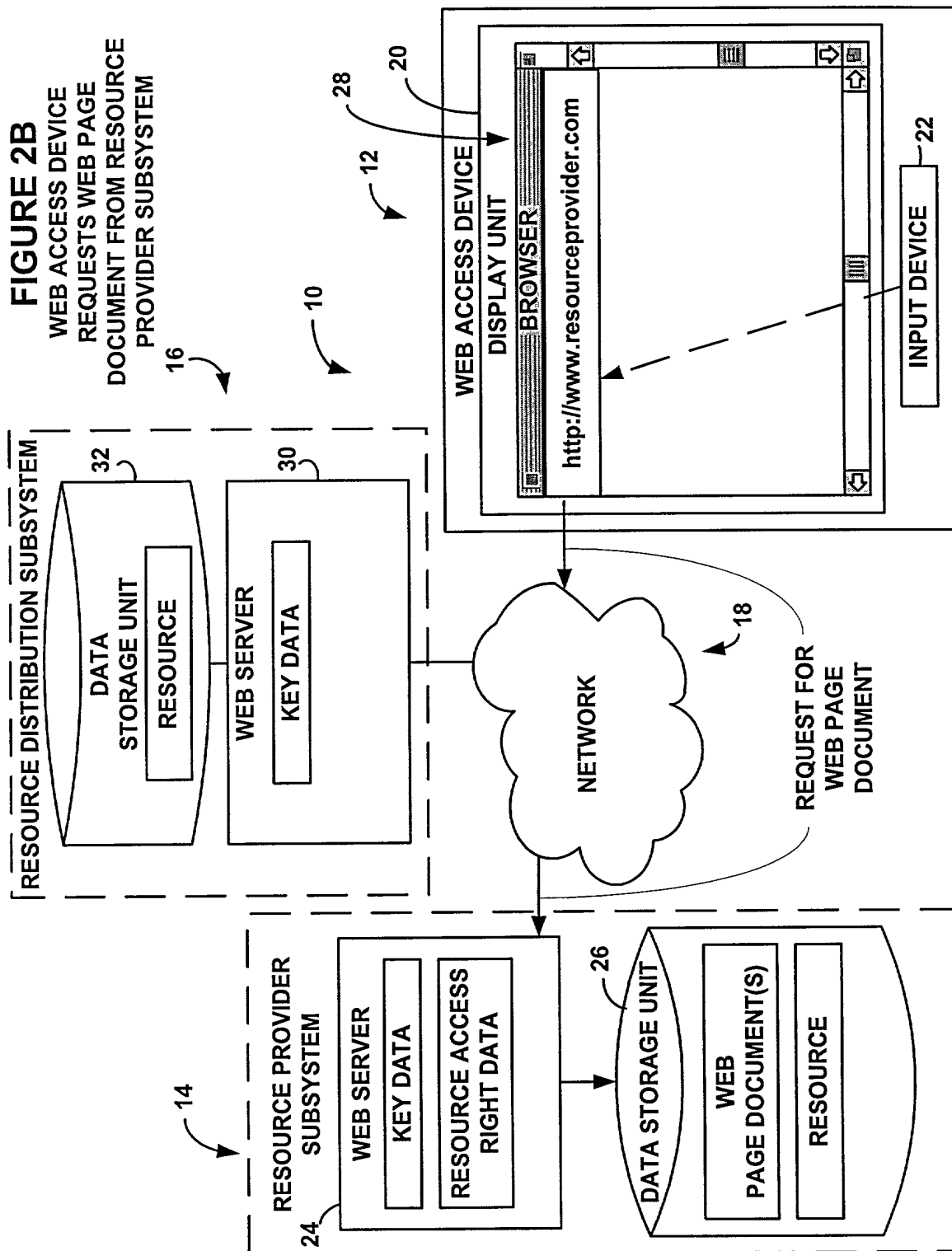


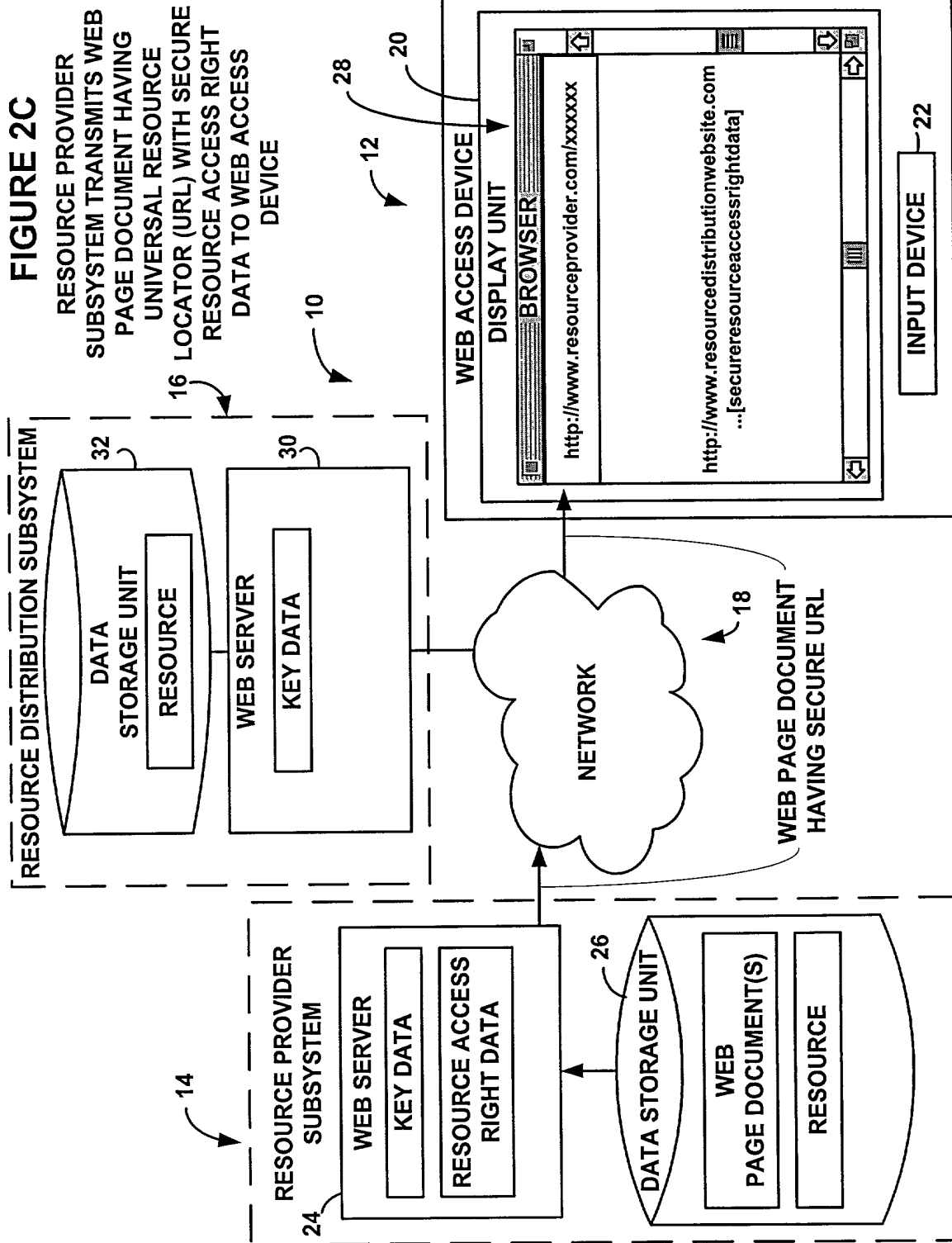
**FIGURE 1G**  
RESOURCE DISTRIBUTION  
SUBSYSTEM PROVIDES  
ACCESS TO RESOURCE TO  
WEB ACCESS DEVICE

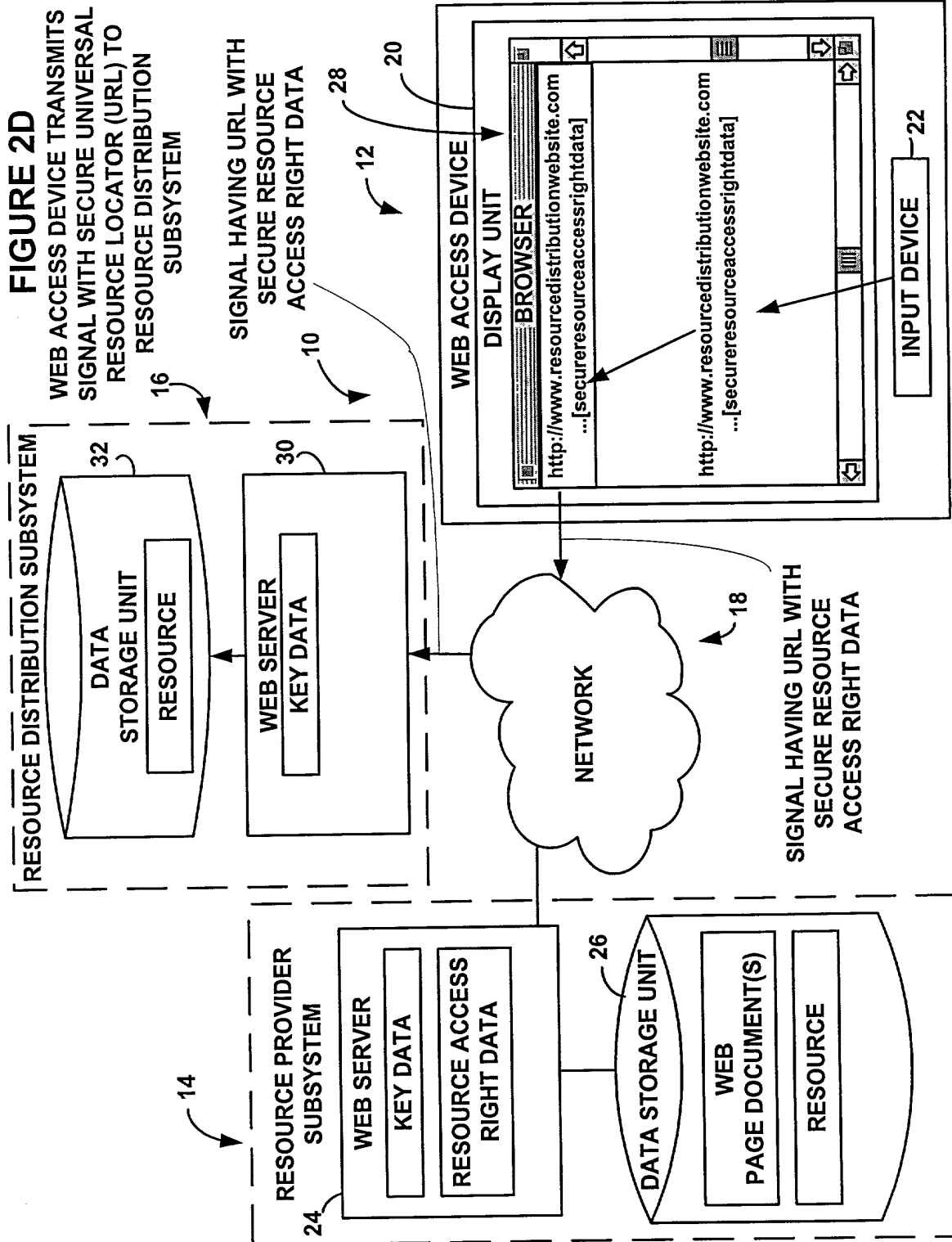


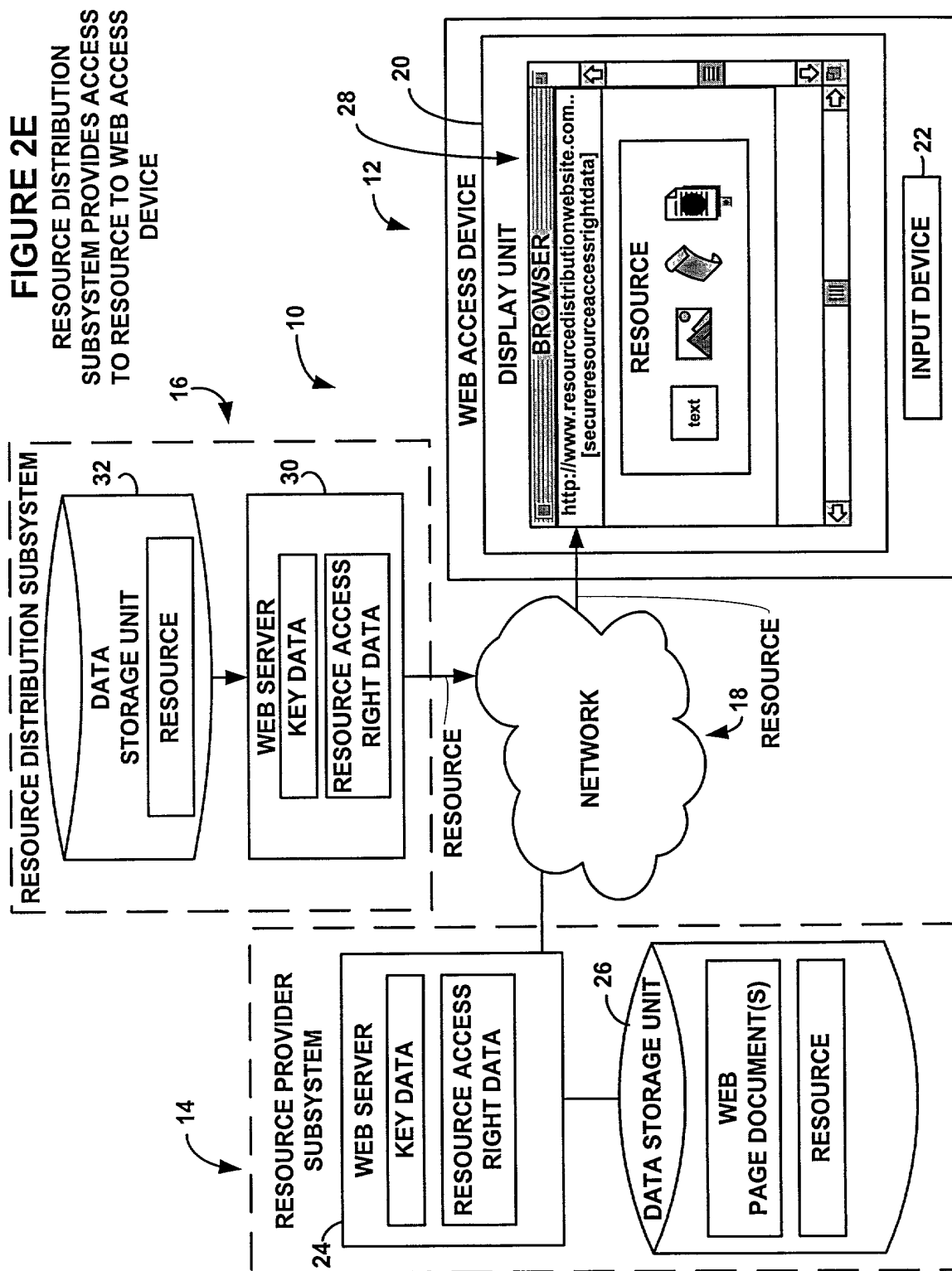


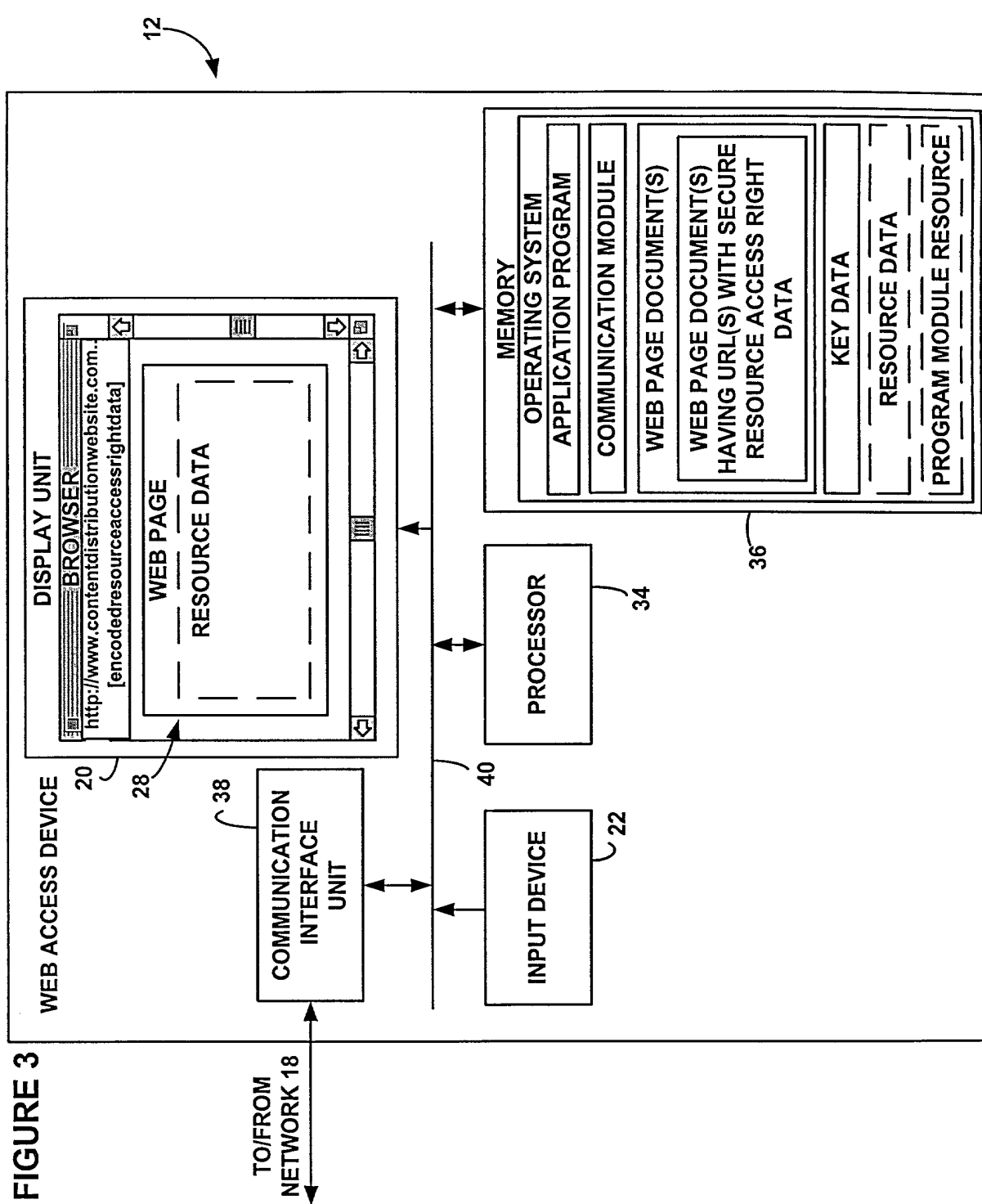






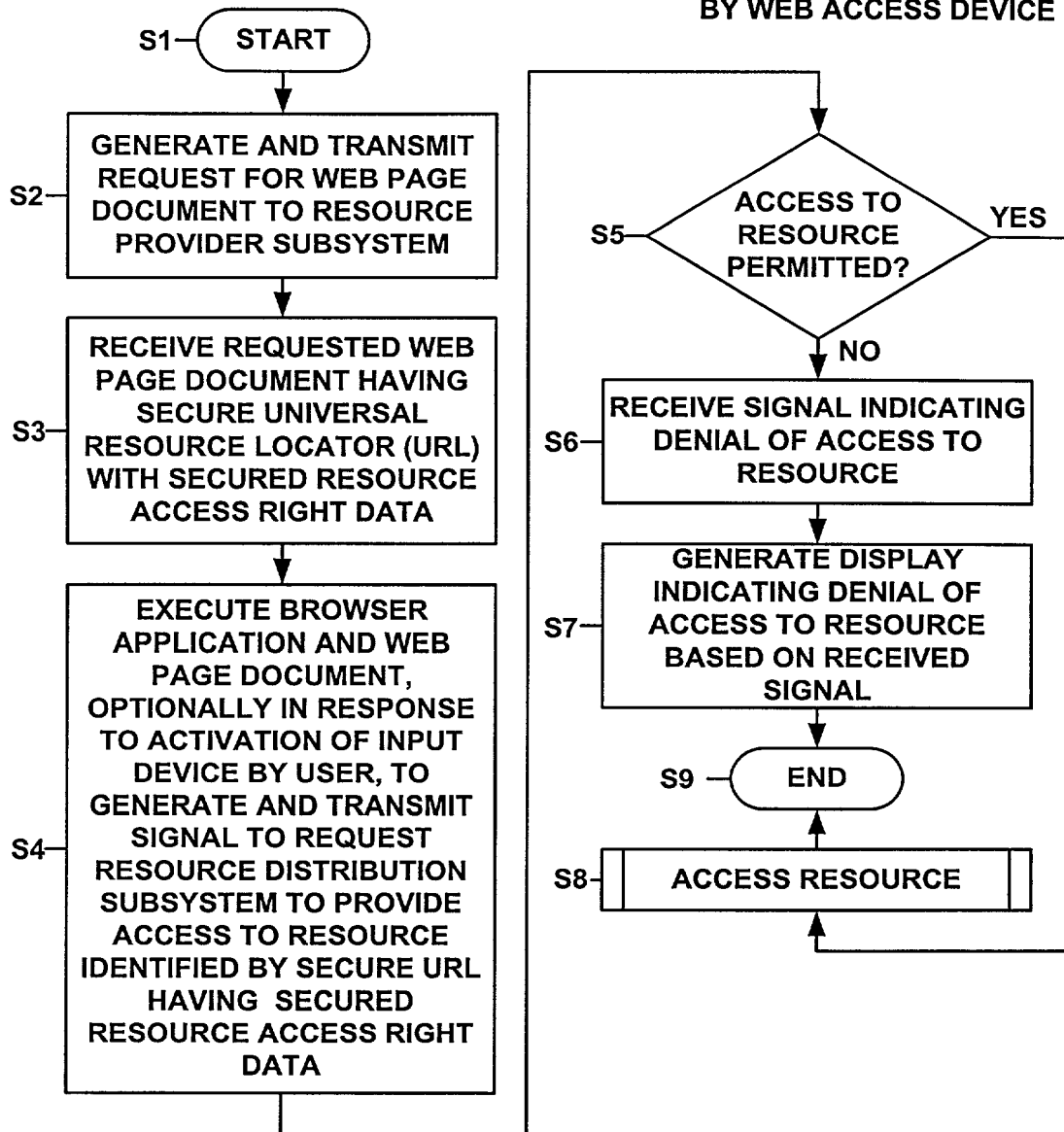






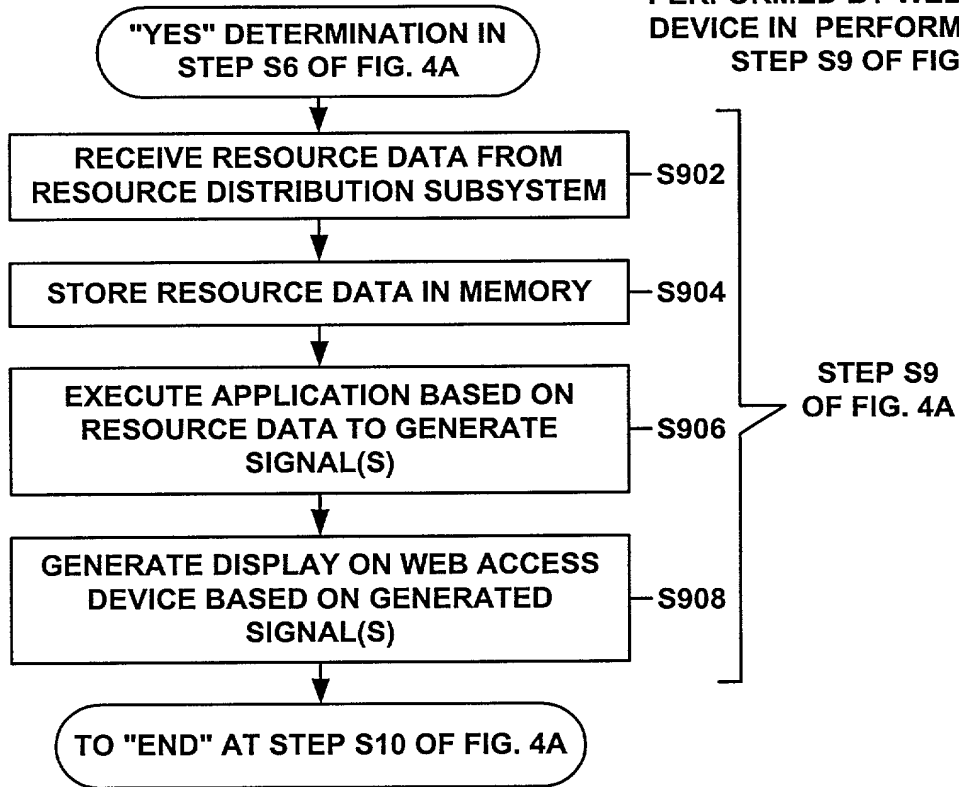
**FIGURE 4A**

**FLOWCHART OF  
PROCESSING PERFORMED  
BY WEB ACCESS DEVICE**



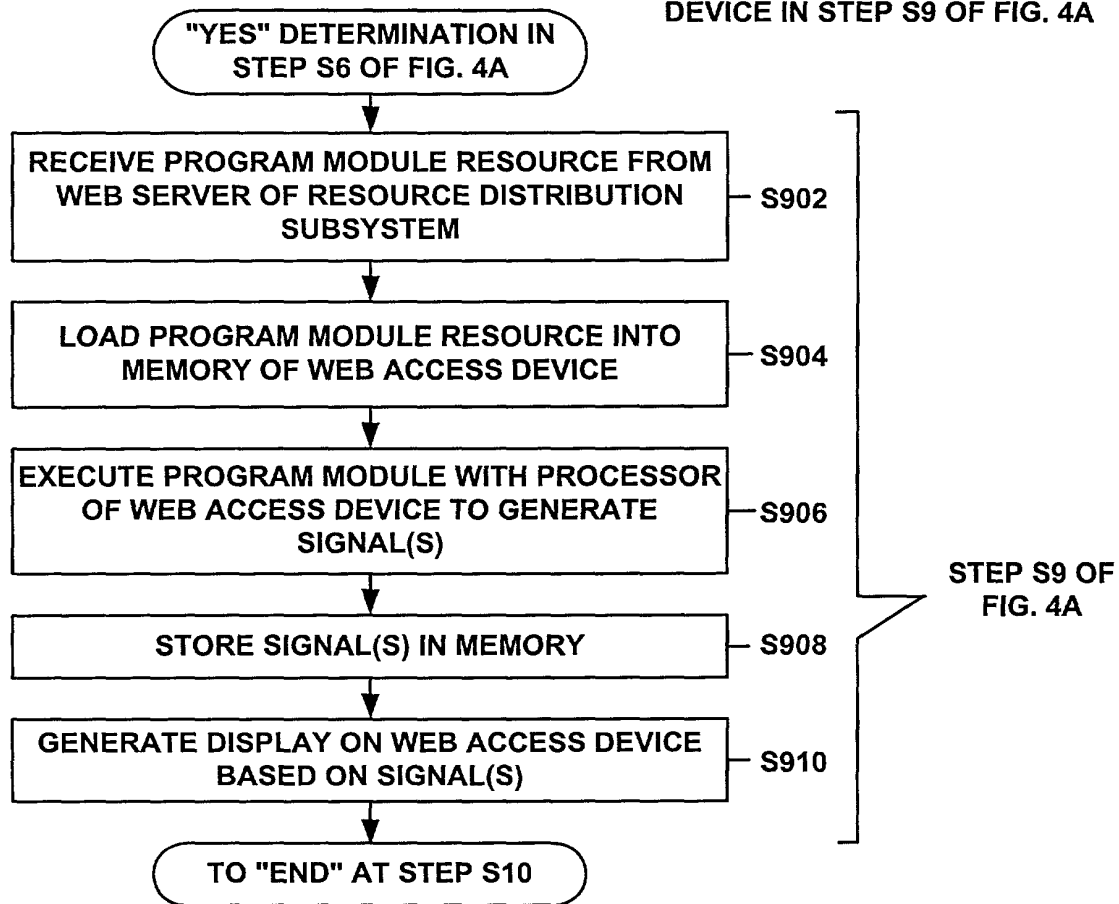
**FIGURE 4B**

**FIRST VERSION OF PROCESSING  
PERFORMED BY WEB ACCESS  
DEVICE IN PERFORMANCE OF  
STEP S9 OF FIG. 4A**

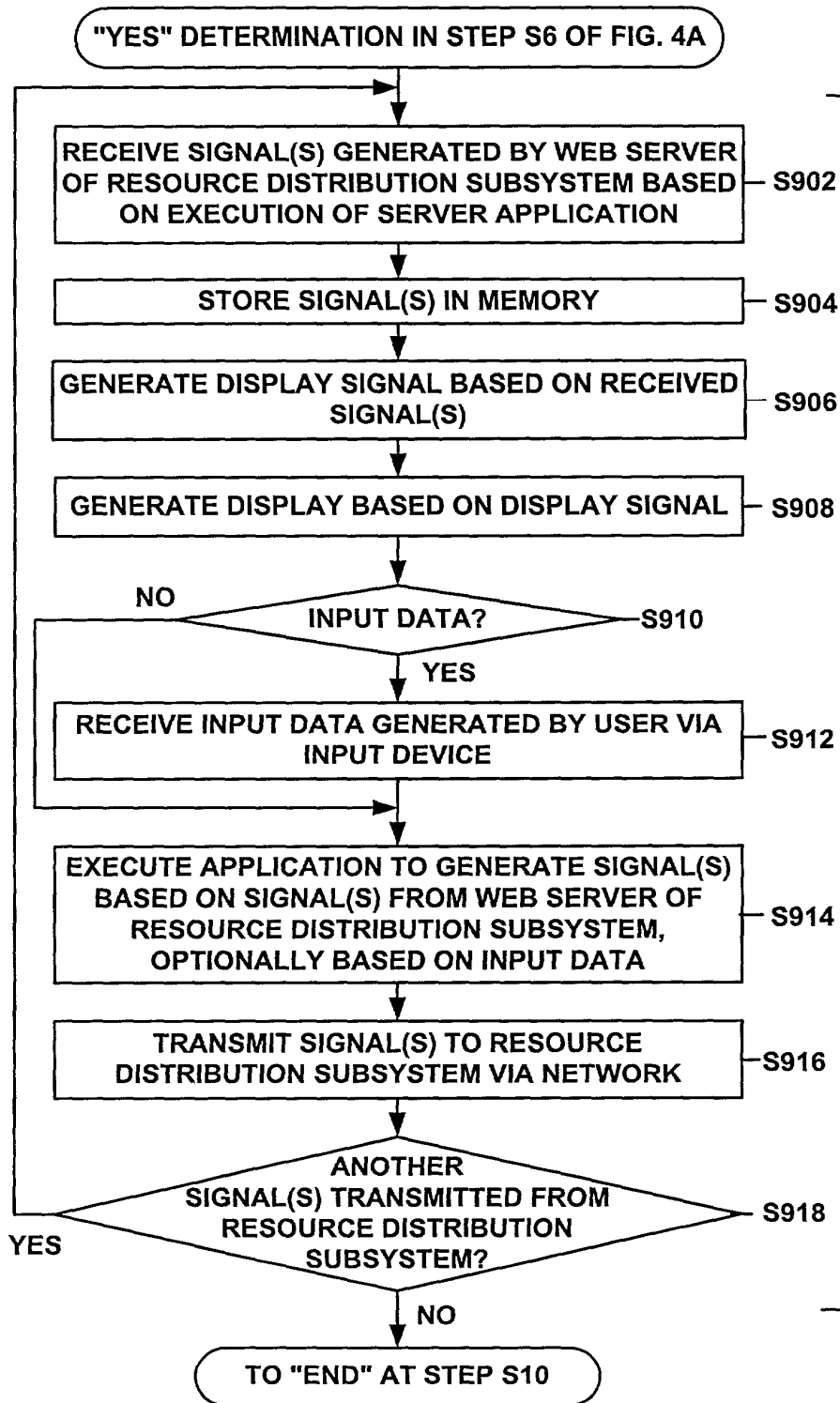


**FIGURE 4C**

**SECOND VERSION OF PROCESSING  
PERFORMED BY WEB ACCESS  
DEVICE IN STEP S9 OF FIG. 4A**



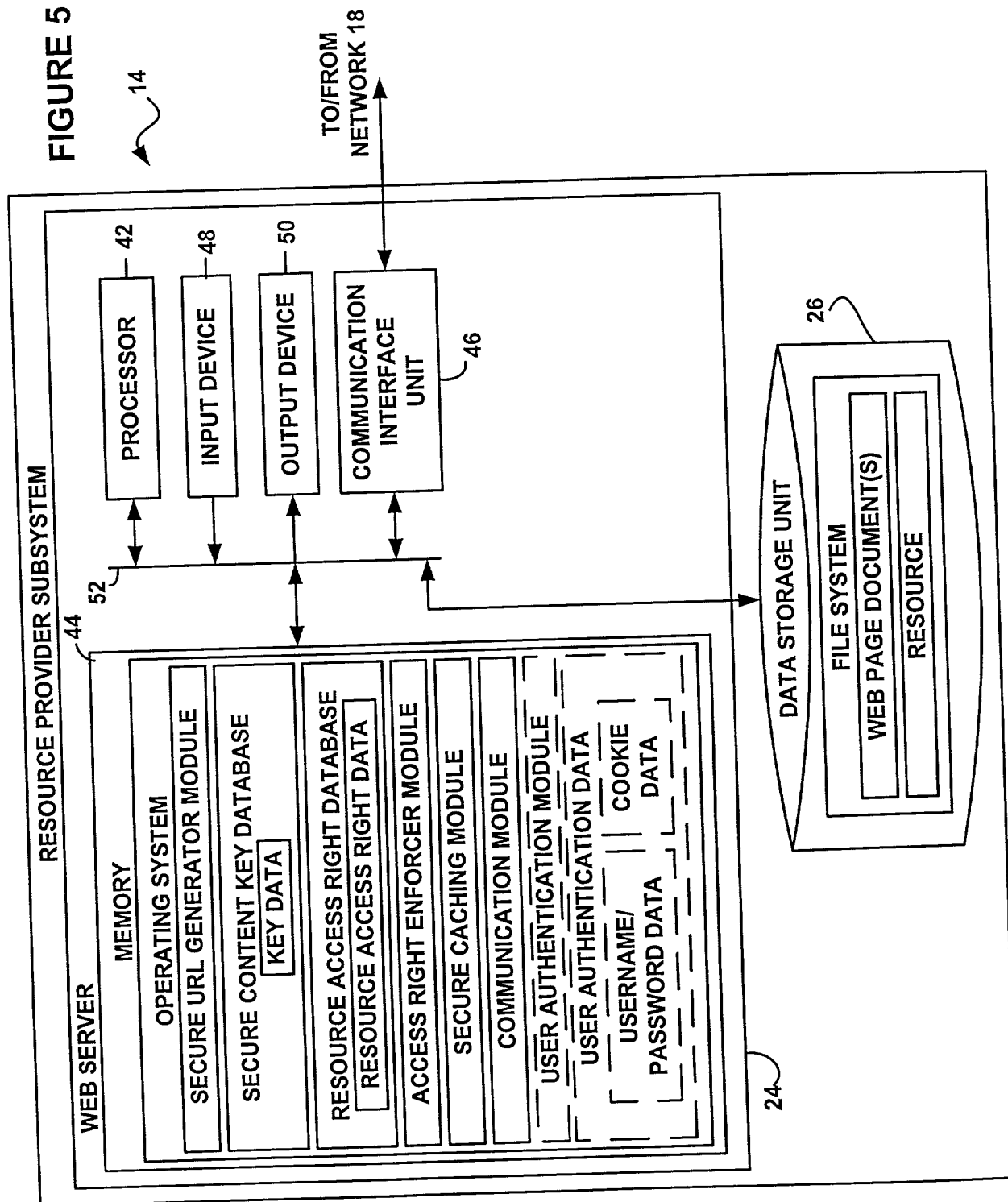




**FIGURE 4D**

THIRD VERSION  
OF PROCESSING  
PERFORMED BY  
WEB ACCESS  
DEVICE IN STEP  
S9 OF FIG. 4A

STEP S9 OF  
FIG. 4A



S1— START

S2— RECEIVE REQUEST FOR WEB  
PAGE DOCUMENT FROM WEB  
ACCESS DEVICE

S3— RETRIEVE DATA FOR WEB PAGE  
DOCUMENT INCLUDING URL(S) OF  
RESOURCE REFERENCED IN WEB  
PAGE DOCUMENT

S4— RETRIEVE RESOURCE ACCESS  
RIGHT DATA FOR URL(S) USING IP  
ADDRESS OF WEB ACCESS DEVICE  
AND/OR USER NAME/PASSWORD  
ESTABLISHED THROUGH LOG-IN  
PROCEDURE

S5— GENERATE HASH OR ENCRYPTED  
DATA TO GENERATE SECURE  
RESOURCE ACCESS RIGHT DATA

S6— COMBINE SECURE RESOURCE  
ACCESS RIGHT DATA WITH  
RESPECTIVE URL(S) TO GENERATE  
SECURE URL

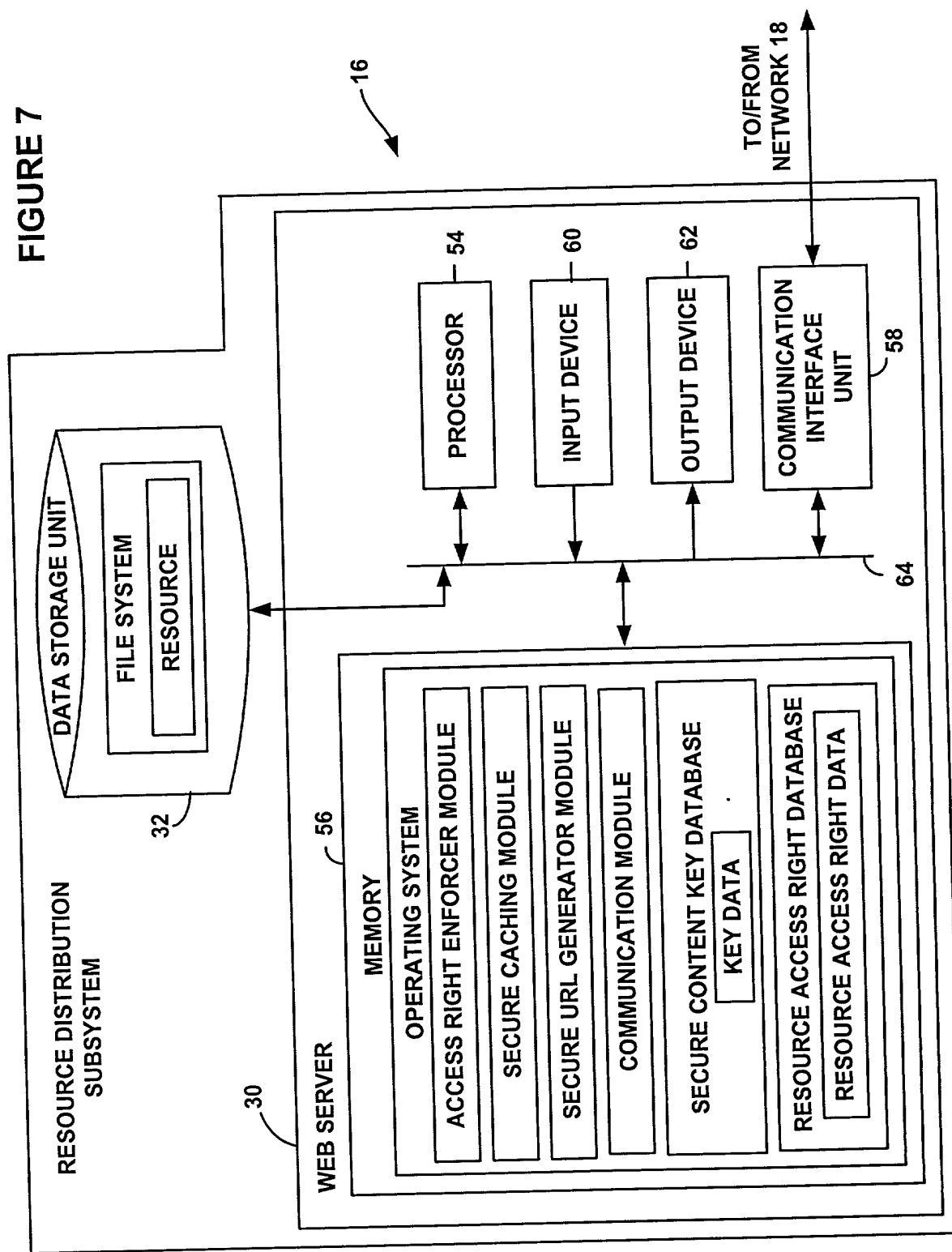
S7— GENERATE WEB PAGE DOCUMENT  
INCLUDING SECURE URL

S8— TRANSMIT WEB PAGE DOCUMENT  
INCLUDING SECURE URL(S) TO  
WEB ACCESS DEVICE

S9— END

**FIGURE 6**  
PROCESSING PERFORMED  
BY RESOURCE PROVIDER  
SUBSYSTEM

FIGURE 7





**FIGURE 9A**  
**SECURE CONTENT KEY DATABASE**

KEY DATA	URL / RESOURCE PROVIDER IDENTIFICATION DATA	VALIDATE WEB ACCESS DEVICE/ USER REQUEST	RETRIEVE RESOURCE	START DATE/TIME DATA FOR KEY	END DATE/TIME DATA FOR KEY
8A1C37D2A925F45C 457D2694EA487987	123.45.67.89	1	1	5.29.2000 23:00:00.00	6.15.2000 23:00:00.00
D750CA0387E34019 274A6107DB40638A 4601A5CD8364857E BA83401756AC7ED4	0	1	0	1.1.2000 00:00:00.00	1.1.2001 00:00:00.00
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
6D3901CBA0395789 206598B93412ABE3	55.65.87.51	0	1	1.1.2000 00:00:00.00	1.1.2001 00:00:00.00

FIGURE 9B  
SECURE CONTENT KEY DATABASE (CONTINUED)

LIFE SPAN DATA	KEY INDEX DATA	HASH IDENTIFIER DATA	ENCRYPTION MODEL DATA	ENCRYPTION ALGORITHM DATA	FORMAT FIELDS DATA
5.29.2000 23:00:00.00 360:00:00.00	2	3	010	001	12
8784:00:00.00	1	2	001	001	12
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
8784:00:00.00	3	1	010	100	12

**FIGURE 9C**  
**RESOURCE ACCESS RIGHT DATABASE**

AUTHORIZED IP ADDRESS/ ADDRESS RANGE	IP ADDRESS OF RESOURCE PROVIDER SERVER	RETRIEVAL KEY DATA	LIFESPAN DATA FOR DATA ACCESS FOR URL	MAXIMUM REFERENCE DATA	REFERENCE COUNT DATA
55.10.13.00	55.134.162.34	9A5B394039384CD8 BE3C6A8721DB482D	5.29.2000 00:00:00.00 360:00:00.00	0008	0006
55.10.12.00- 55.10.12.255	0	195A845BE7F304FD 1F7A36B9477BB463	4.23.2000 00:00:00.00 8784:00:00.00	0001	0000
• • •	• • •	• • •	• • •	• • •	
55.10.15.00 - 55.10.15.255	32.84.93.126 32.29.41.128	FDC3495867FD341A A7C848B8D8EE8230	8.24.2000 00:00:00.00 8784:00:00.00	0010	0001



**FIGURE 10A**  
SECURE URL HAVING WITH RESOURCE ACCESS RIGHT DATA  
APPENDED ARGUMENT APPROACH

HEADER	DESTINATION	DATA REQUEST FIELD(S)	SEPARATOR	IP ADDRESS
http://	www.content-server.com	/path1/path2/file.ext	?	ip= 1.2.3.4

SEPARATOR	HASH DATA	AUTHORIZED IP ADDRESS RANGE	IP ADDRESS OF RESOURCE PROVIDER	RETRIEVAL KEY DATA
&	hash= ACD54CD3D8E CA892ACB34E4 B5D1C8C38	address-range= 55.10.12.00 - 55.10.12.255	ips= 52.10.18.00	key= 9AF371AC 047C985D E407128A CB497D4B

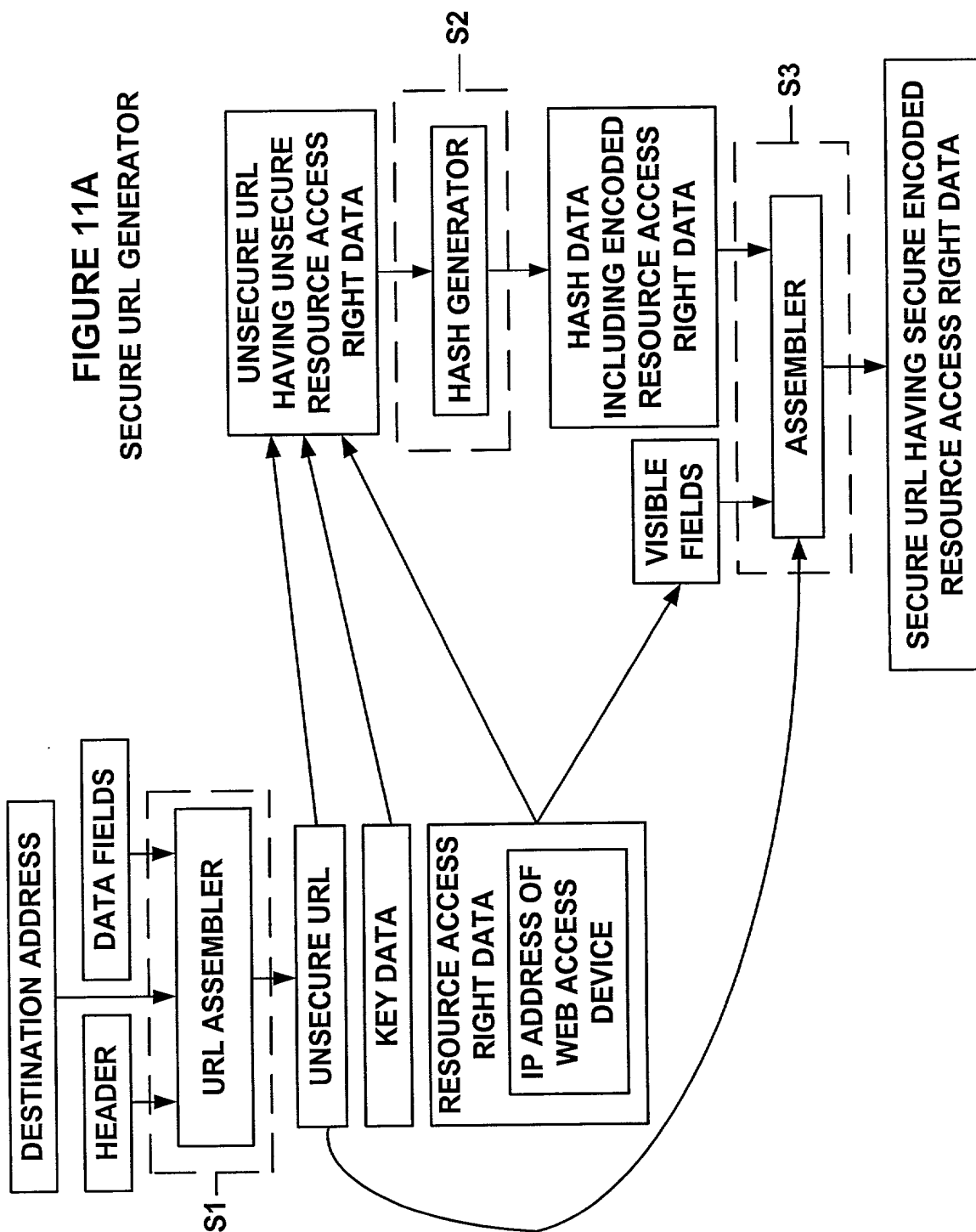
LIFESPAN DATA	MAXIMUM REFERENCE DATA	FORMAT FIELD DATA	KEY INDEX DATA	HASH/ENCRYPTION MODEL DATA	HASH/ENCRYPTION ALGORITHM DATA
lifespan= 6.29.2005 00:00:00.00 72:00:00.00	maximum reference= 0008	format= 100	keyindex= 011	model= 010	algorithm= 111

FIGURE 10B  
SECURE URL HAVING ENCODED RESOURCE ACCESS RIGHT DATA  
FORMATTED PATH APPROACH

HEADER	DESTINATION	DATA REQUEST FIELD(S)	SEPARATOR	IP ADDRESS INDICATOR	IP ADDRESS
http://	www.content-server.com	/ACD54CD3D8ECA89 2ACB34E4B5D1C8C /path1/path2/file.ext	?	ip=	1.2.3.4

AUTHORIZED IP ADDRESS RANGE	IP ADDRESS OF RESOURCE PROVIDER	RETRIEVAL KEY DATA	LIFESPAN DATA
address-range= 55.10.12.00 - 55.10.12.255	ips= 52.10.18.00	key= 9AF371AC 047C985D E407128A CB497D4B	lifespan= 6.29.2005 00:00:00.00 72:00:00.00

MAXIMUM REFERENCE DATA	KEY INDEX DATA	FORMAT FIELD DATA	HASH/ENCRYPTION MODEL DATA	HASH/ENCRYPTION ALGORITHM DATA
maximum reference= 0008	key index= 011	format= 100	model= 010	algorithm= 111



**FIGURE 11B**  
**WEB PAGE ASSEMBLER**

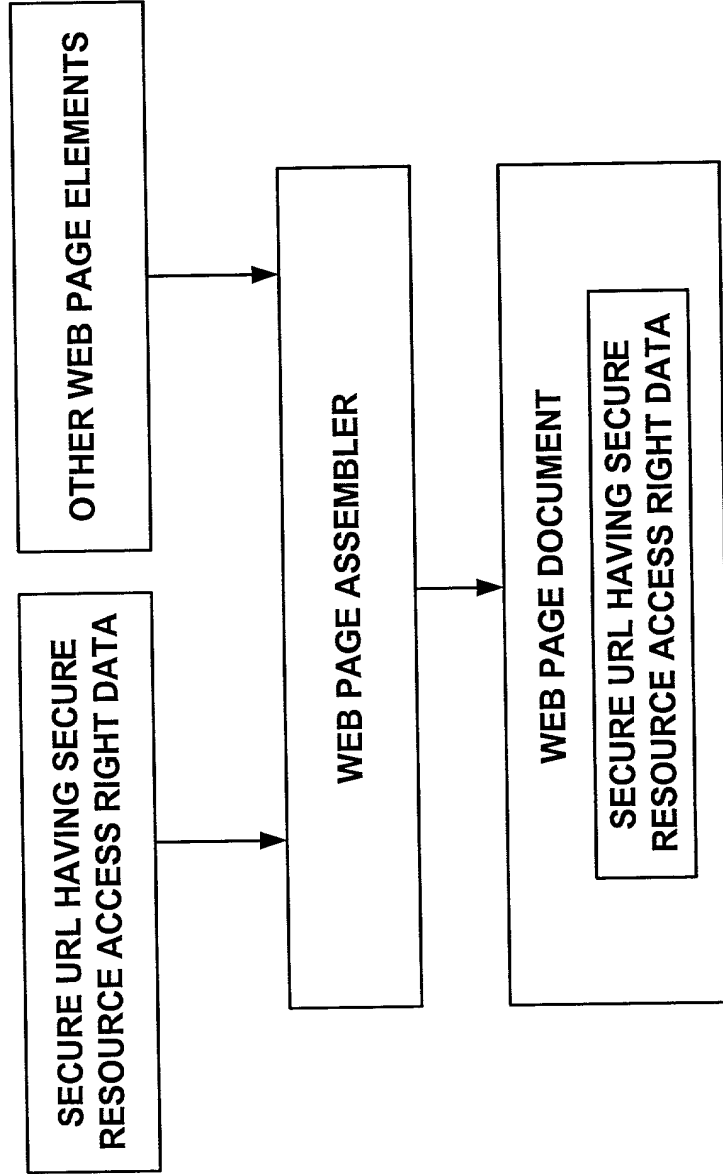
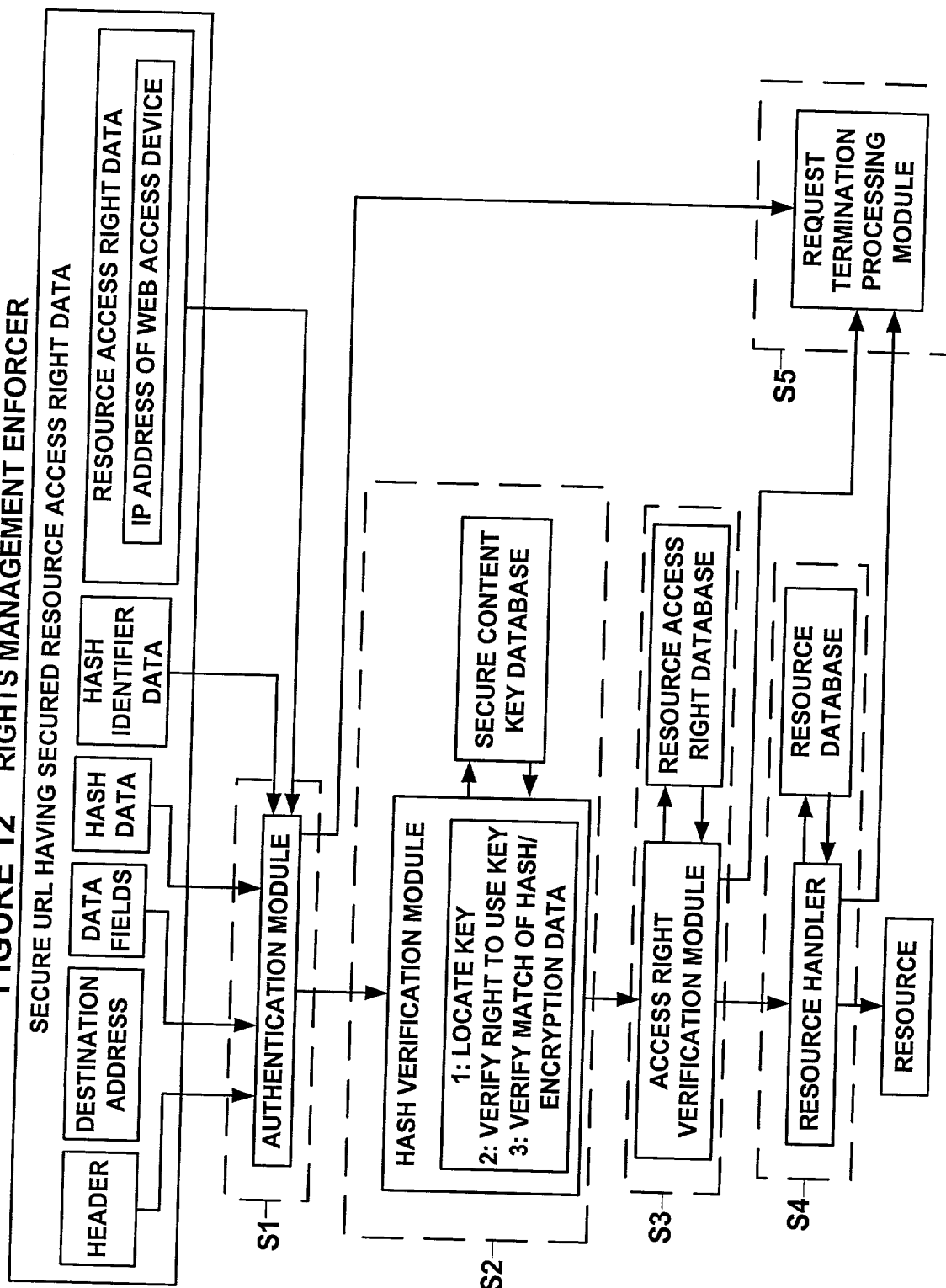
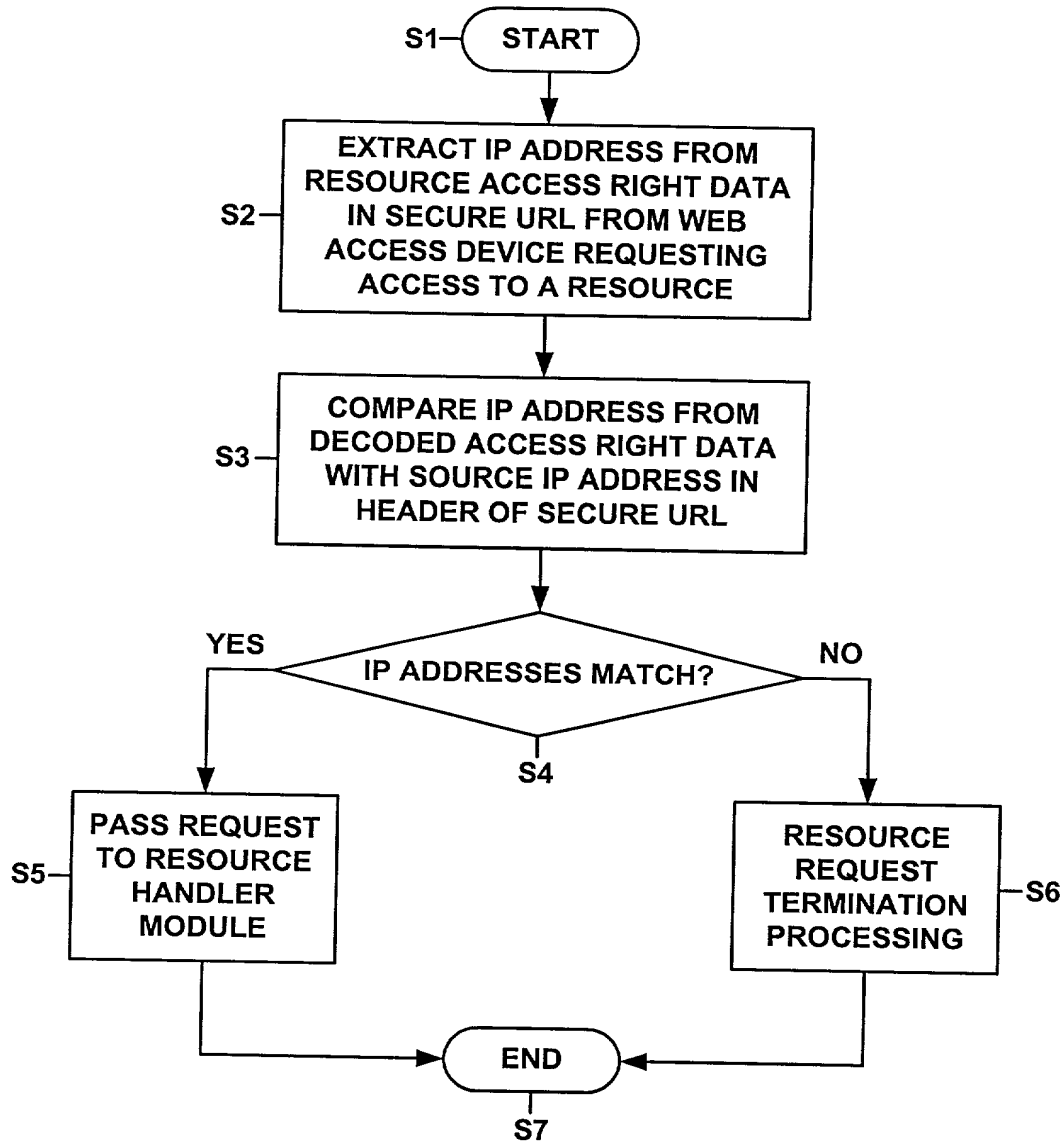


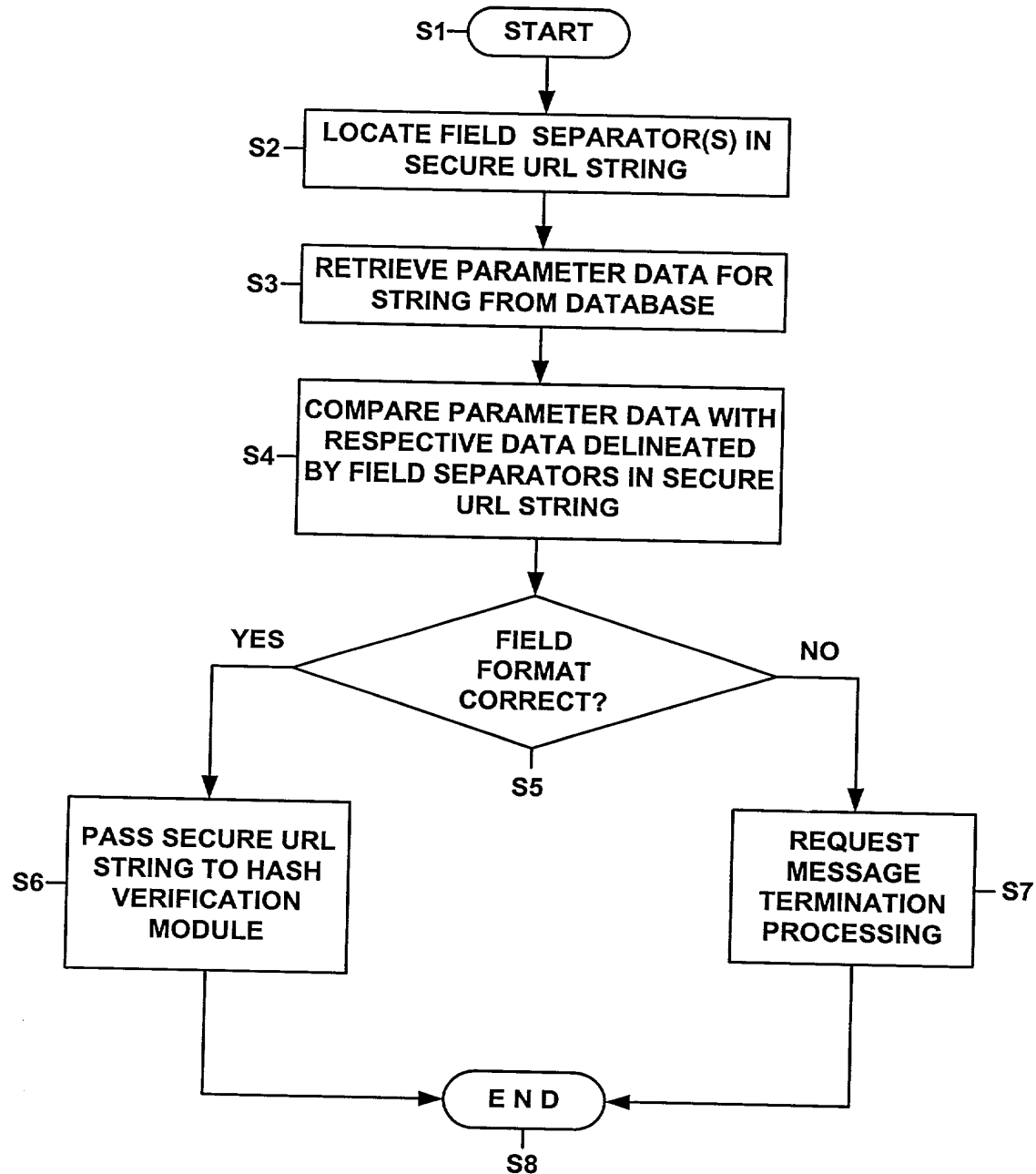
FIGURE 12 RIGHTS MANAGEMENT ENFORCER



**FIGURE 13A**  
AUTHENTICATION OF IP ADDRESS  
OF WEB ACCESS DEVICE

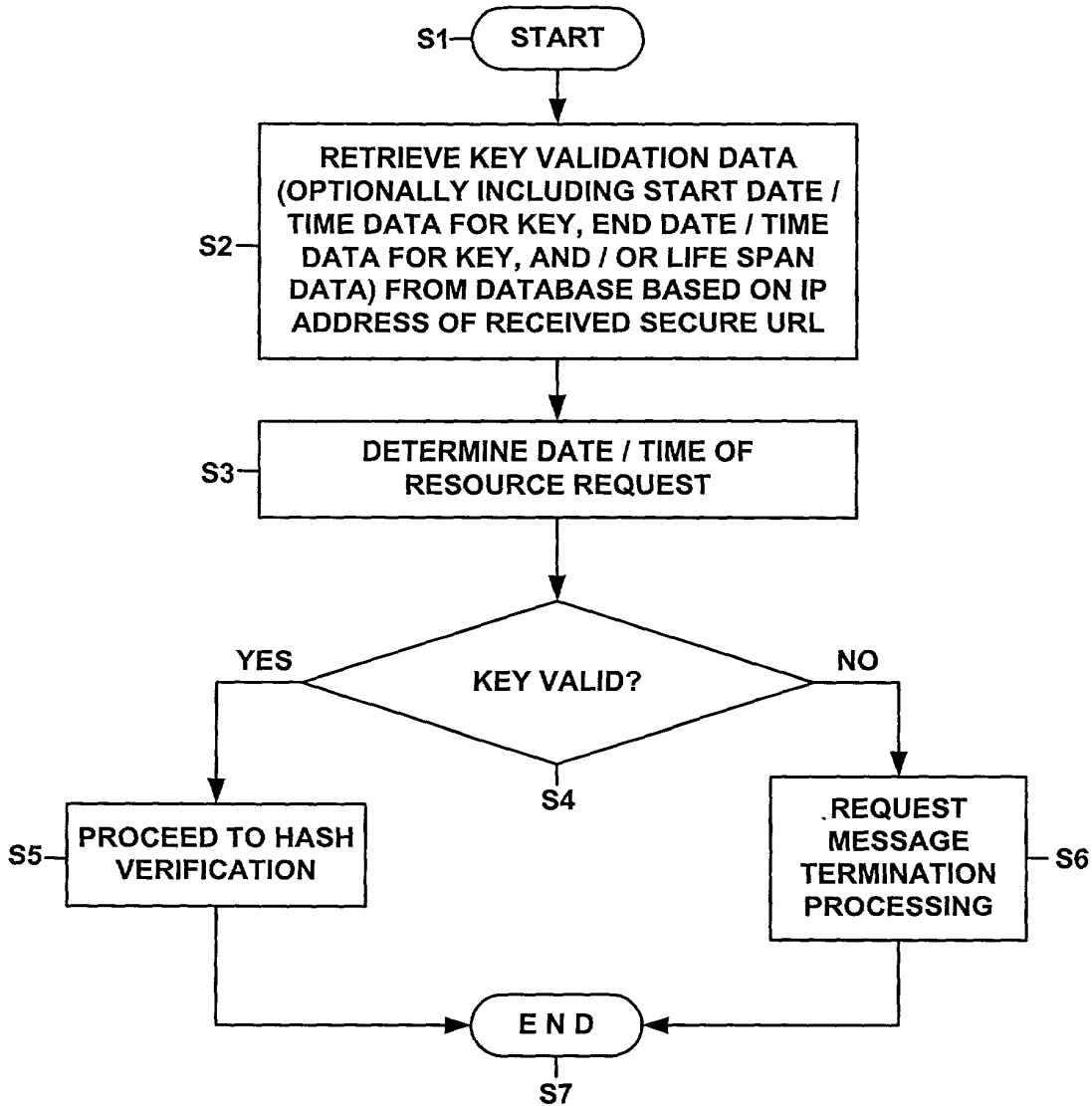


**FIGURE 13B**  
**CHECK FIELD FORMAT**



**FIGURE 13C**

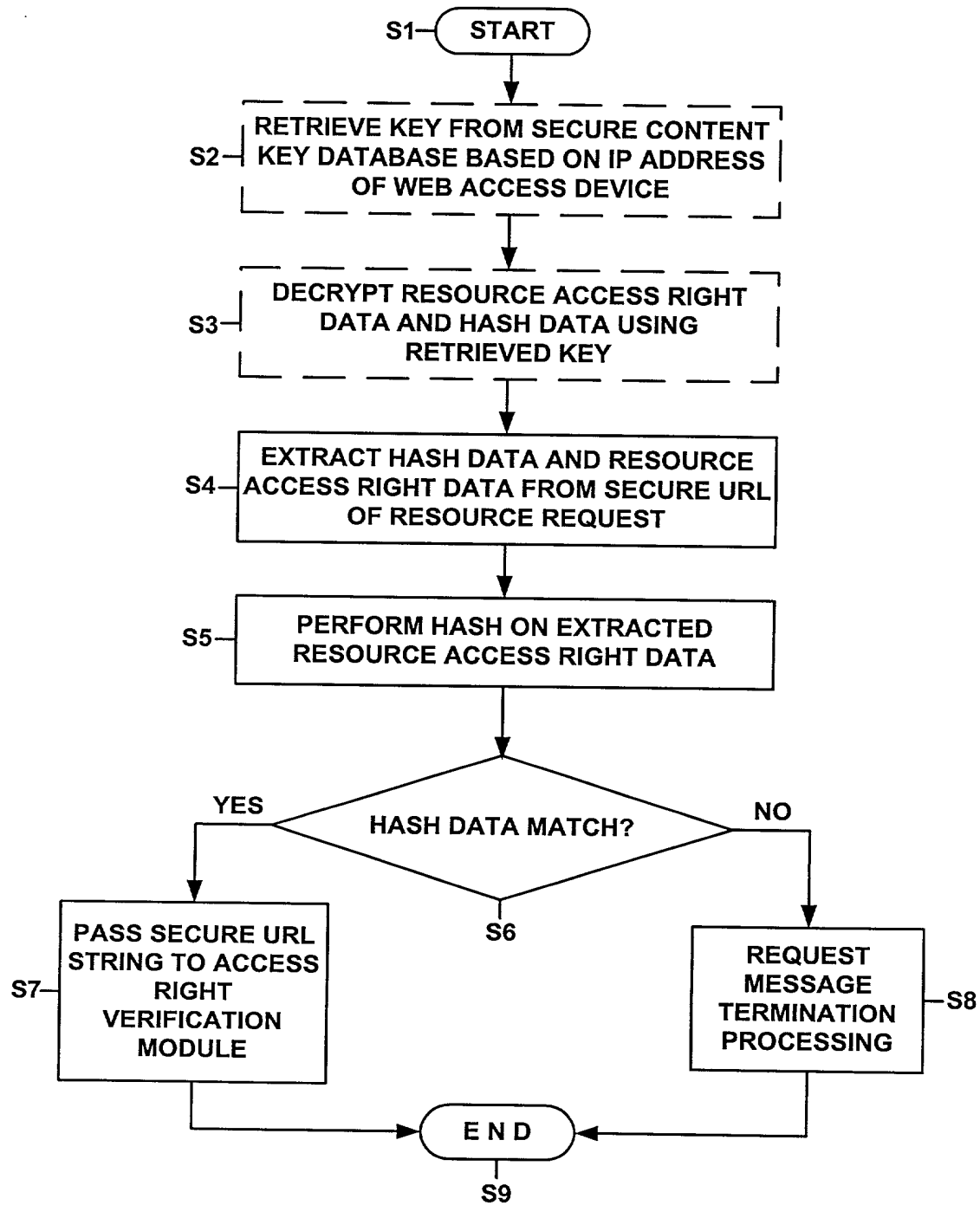
**KEY VALIDATION**





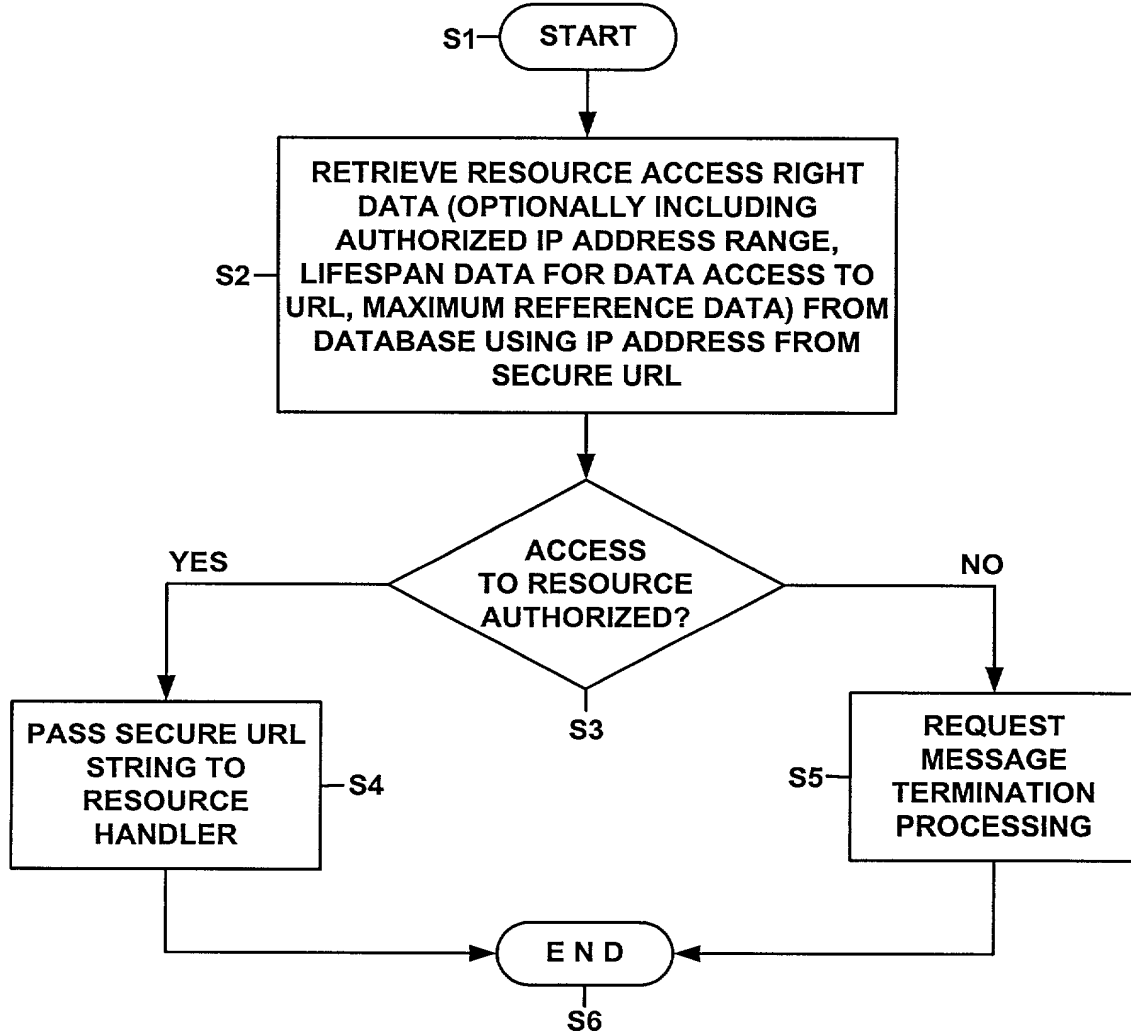
**FIGURE 13D**

**HASH VERIFICATION**



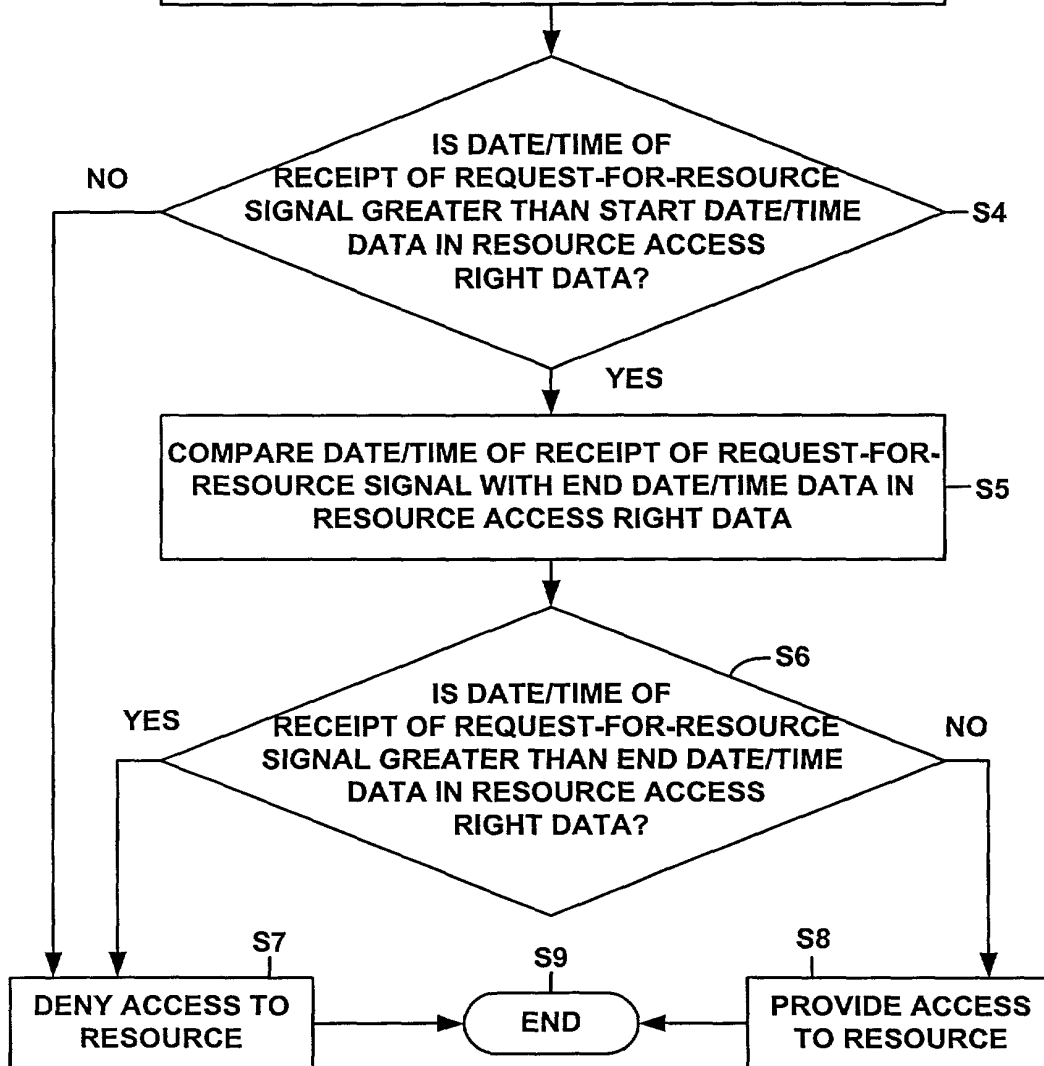
**FIGURE 13E**

**RESOURCE ACCESS RIGHT VERIFICATION**



LOG DATE/TIME OF RECEIPT OF REQUEST-FOR-RESOURCE SIGNAL FROM WEB ACCESS DEVICE —S2

COMPARE START DATE/TIME OF RECEIPT OF REQUEST-FOR-RESOURCE SIGNAL WITH START DATE/TIME DATA IN RESOURCE ACCESS RIGHT DATA	S3
---	----



**FIGURE 13G**  
RESOURCE ACCESS  
VERIFICATION

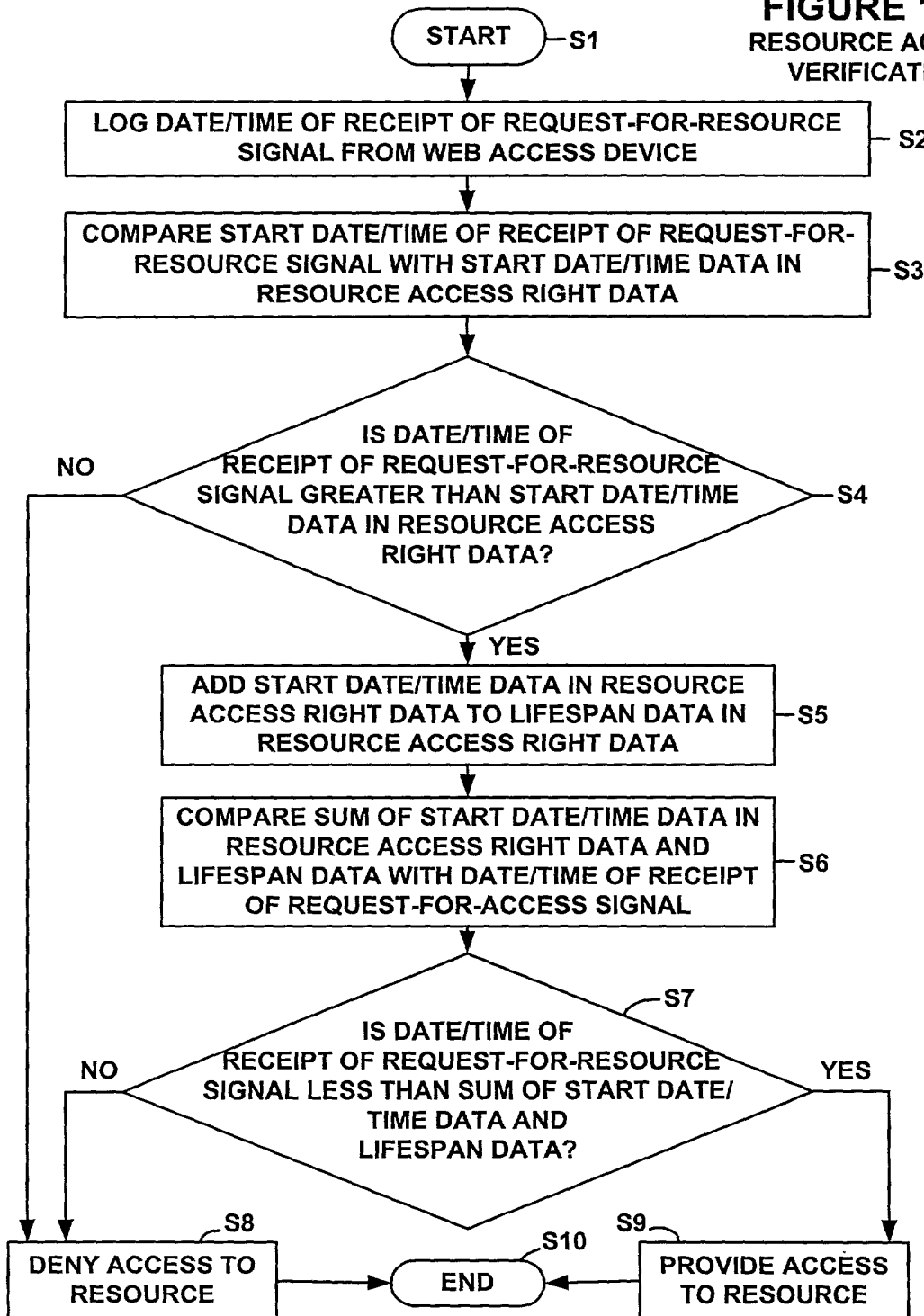
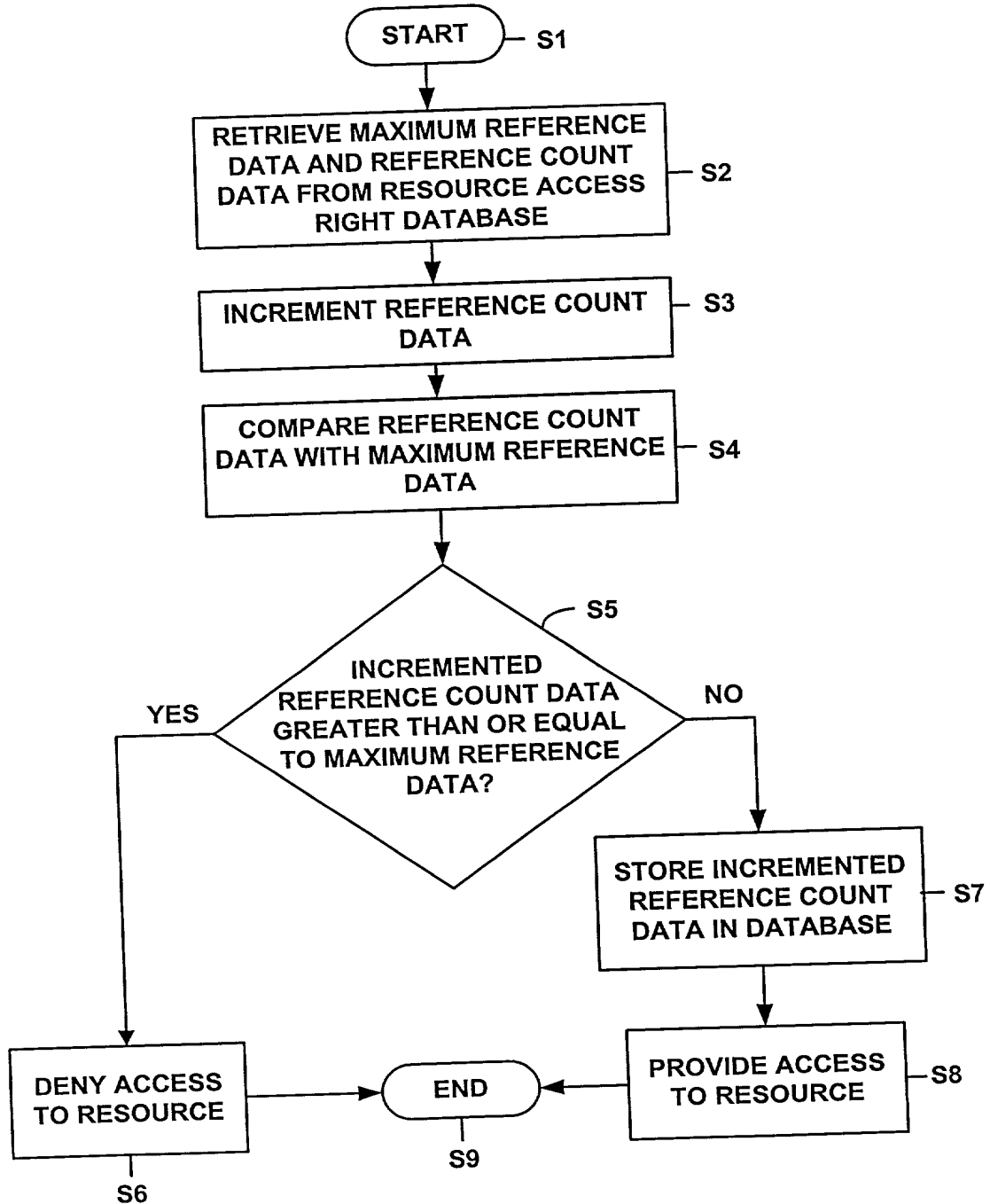


FIGURE 13H

ACCESS RIGHT VERIFICATION



**FIGURE 13I**  
**RESOURCE ACCESS VERIFICATION**

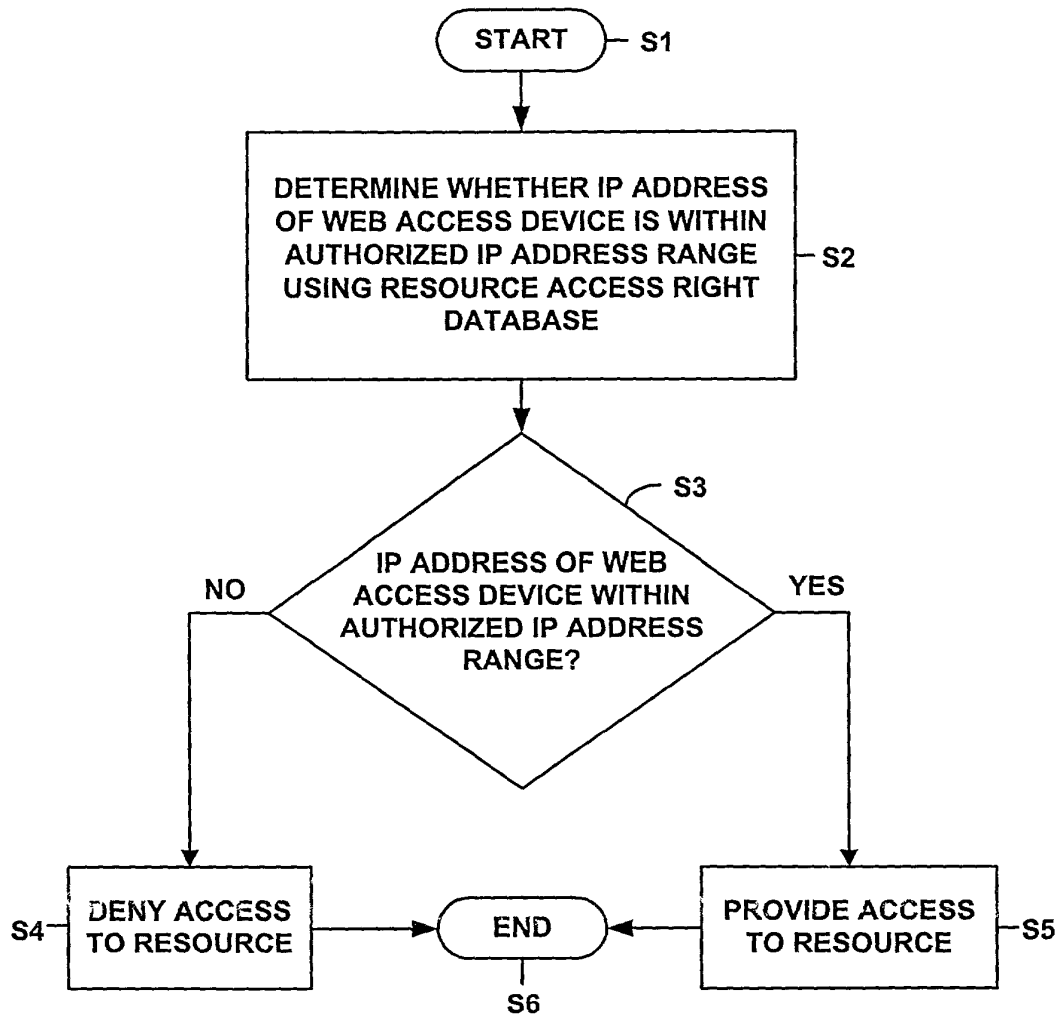
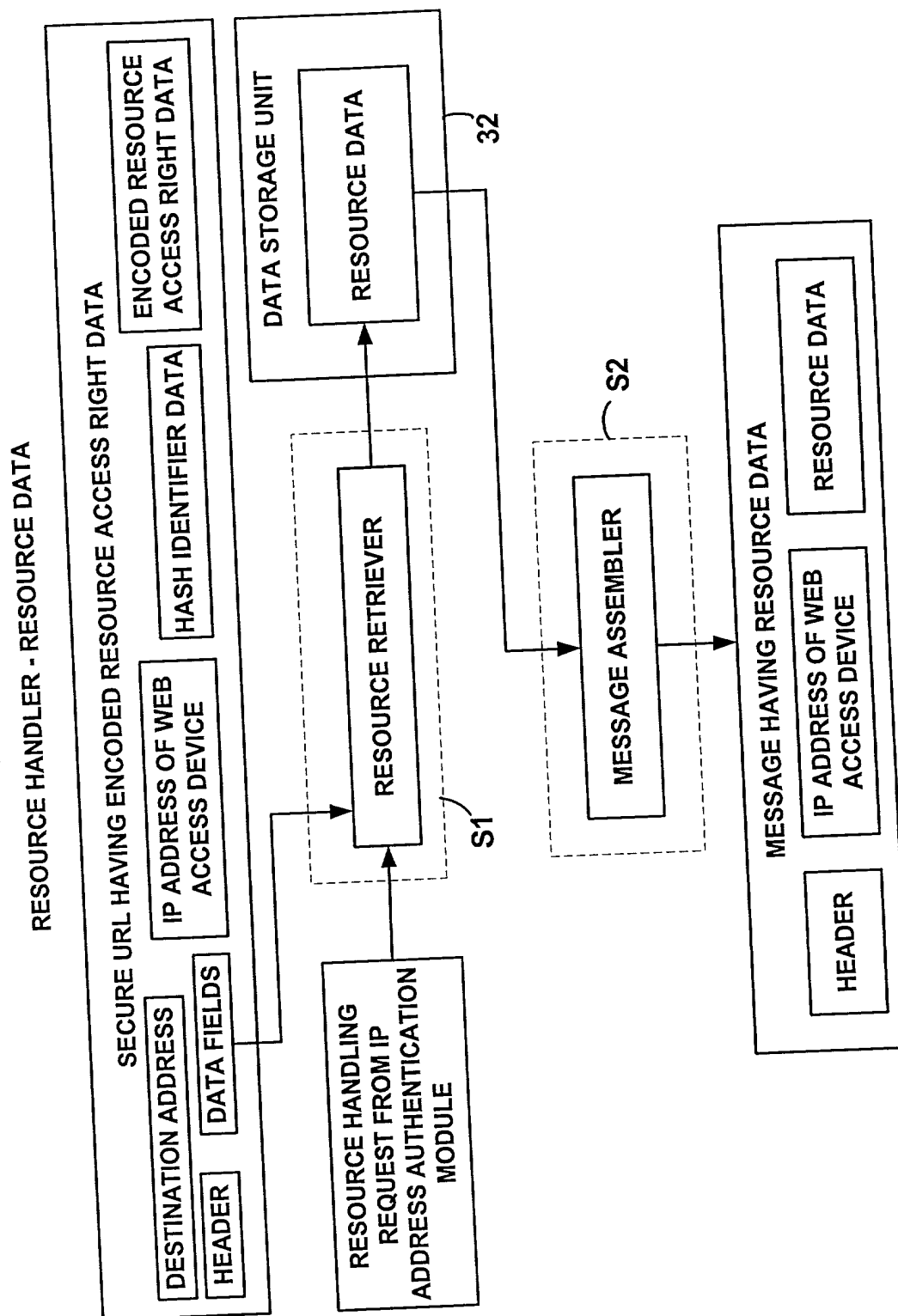


FIGURE 14



**FIGURE 15**  
**RESOURCE HANDLER - APPLICATION RESOURCE**

